THE MINISC JOURNAL,

Stannaries of Cornwall-In the Vice-Warden's Court. DURSUANT to a DECREE of the VICE-WARDEN'S COURT, made in the cause of KEAST v. VERRAN, the CREDITORS, in respect of TREWETHA MINE, in she parish of ENDELLION, within the said Stamaries, are, on or before the 12th day of September next, to come in and FROVE their DEBTS before the Registrar of the said Court, at his office in Truro; or, in default thereof, they will be excluded the benefit of the said decree.

Dated Registrar's Office, Truro, the 9th day of August, 1849.

Stannaries of Cornwall—In the Vice-Warden's Court. COURT, made'in the cause of FRANCIS v. CAVE, the CREDITORS, in respect PENBERTHY CROFTS MIRE, in the parish of SAINT HILARY, within the said tannaries, are, on or before the 27th day of September next, to come in and PROVE neir DEBTS before the Registrar of the said Court, at his office in Trure; or, in default hereof, they will be excluded the benefit of the said decree.

Dated Registrar's Office, Trure, the 29th day of August, 1849.

LARGE AND IMPORTANT SALE OF FREEHOLD AND LEASEHOLD ESTATES and OTHER PROPERTY, in DENBIGHSHIRE, FLINTSHIRE, & City of CHESTER.

LARGE AND IMPORTANT SALE OF FREEHOLD AND LEASEHOLD ESTATES, and OTHER PROPERTY, in DENBIGHSHIRE, FLINTSHIRE, &City of CHESTER.

M. R. R. W. JOHNSON feels much pleasure in having to state, that he has been instructed to OFFER FOR SALE, BY AUCTION, at the Wynnstay Arm Hotel, in WREXHAM, on Tuesday, the 25th day of September next, at the hour of Two o'clock in the afternoon, in the lots, and aubject to the conditions to be then declared and produced, the very desirable

FREEHOLD MANSION, THE ENDING HERDITAMENTS, containing valuable MINES of COAL, IRONSTONE, LEAD ORE, &c., lately the property of James Kyrke, Eaq., and respectively called, or known, by the names of Upper Glascoed, Middle Glascoed, Lower Glascoed, Pentre Saison, Cefn. Fynnon-y-Cwm, the Waen, the Gorse, Cefn By-chan, Cefn-y-Mass, Brynteg, Cae Sheet, Cae Salisbury, Coed-y-chili (several fields, part of), and other tensenents and lands, situate in the townships of Brymbo and Broughton, in the parish of Wrentam. in the county of Denbigh.

A TENEMENT and FARM, called BRYNGLAS, in the parish of Llanthsiadr-yn-Mochnant, in the sould county of Denbigh.

A MESSUAGE and LANDS, in the occupation of Mr. Samuel Davies, at the Frith, in the parish of Hope, in the county of Penbigh.

The QUARTER SHARE of and in the Commutation Rent Charge, in lieu of the titles of thay and corn in the said township of Brymbo.

A large and commodions MESSUAGE, SHOP, and PREMISES, in Eastgato-street, in the City of Cherker.

the CHTT OF CHEFTER, In the occupation of Mr. Edward reters, brazer.—Also the

LEASEHOLD ESTATES
of the said James Kyrke, in the MESSUAGES, or DWELLING-HOUSES, GARDENS,
and APPURTENANCES, commonly called the ROPERY, in Bagillt, in the partsh of
Holywell, in the country of Finit; part whereof is underleased to the parish of Holywell.
Also in the PENTGOED and PLASMAEN COLLIERIES, in the township of Brymbo
aforesaid, and the absolute INTEREST in the PLANT and MACHINERY belonging
thereto, as lately offered for sale.—Also the several

SHARES
said James Kyrke, in the COLLIERY MINES and MACHINERY following

The sam sames kyrae, in the COLLIER'S MINES and MACHINER'S following—that is to say, in the COLLIER'S, near Wrexham, also lately offered for sale. The STEDFOOD LIME WORKS and ECCKS, at Minera, also lately offered for sale. The ENGINES and MACHINERY at the CRAIGIOG LEAD MINE, in the parish of lanarmon-y-vale, in the county of Denhityd, also lately offered for sale. The ENGINES, MACHINERY, and IMPLEMENTS, on the CITY LAND, in the waship of Minera.

Density of Minera.

The ERGINES, ARCHINERY, and IMPLEMENTS, upon a TENEMENT, at Minera stressid, belong, machinery, and IMPLEMENTS, upon a TENEMENT, at Minera stressid, belonging to R. A. Kyrke, Esq.

The VOOLPARK LEAD MINK, in the parish of Wrexham.

The well-known and productive TALACRE MINE, in the county of Flint.

Also the ENTIRETY of a FULICY of INSURANCE of the Sun Life Office, for the sum of £50% payable upon the death of a party aged 51 years, or thereathents.

Further details will be given in a future Number of the Mining Journal.

Printed particulars will be ready for distribution a fortnight prior to the sale; and in the meantime information may be obtained upon application to Mears, James & Owen, olicitors, Wrexham, who will appoint persons to show the various properties.

TO COLLIERY OWNERS, RAILWAY PROPRIETORS, DOCK COMPANIES, ENGINEERS, CONTRACTORS, AND OTHERS. the COLLIERY, CHARTERSHAUGH, near the Washington and Pensher Station the York, Newcastle, and Berwick Railway.

At the COLLIERY, CHARTERSHAUGH, near the Washington and Fernance Stations of the York, Newscartle, and Berwick Railway.

MR. W. I. BARKER has been favoured with instructions to the 56th agy of September, 1489, the whole of the Valuable.

COLLIERY, WORKING STOCK, and MATERIALS, comprising a first-rate HIGH-PRESSURE FUMPING ENGINE, of 80-horse power (by Hawks), hearly new.

A excellent HIGH-PRESSURE WINDING ENGINE, of 34-horse power (by Hopper), new. A excellent HIGH-PRESSURE WINDING ENGINE, of 54-horse power (by Abbot), new. THREE CTLINDIRGAL BOILERS, 30 feet by 6 feet.

Two 16-inch set of pumps, with spaars and spear plates, main and tail crabs, gins, ground spears, ground blocks, main & ground crab ropes, 4 coal acreens, with frames and pulleys, abec legs, 4 coal acreens, NUT COAL AFPARATUS, heapstead, conductors, eages, and keeps, COAL DROP, for loading keels (nearly new), several lois of COAL TUBS, for keels, FIFTY-EIGHT WOOD AND IRON COAL WAGGONS,
Maileable and cast-ron RAILWAY and CHAIRS, crossings and points, underground ditto ditto, coal tubs for underground, flat and round ropes, sleepars, lathe, patterns, deals, timber, smiths' bellows, vices, anvil, tools, nails, joiners' benches, FOUR CAETS, trapping, agricultural implements, new and old iron and metal, old rope, and a large quantity of other miscellaneous articles and colliery of farm purposes, FOUR COUP CARTS, various agricultural implements, new and old iron and metal, old rope, and a large quantity of other miscellaneous articles and colliery stack.

ogues may be had on and after the 17th inst., at the office of the aucti Sale to commence at Ten o'clock precisely.

The Pensher and Washington Stations are within 20 minutes' walk of the collie-

(From Bradshaw's Guide for September.]

MR. W. I. BARKER will PEREMPTORILY SELL, BY AUCTION, on Tuesday, October 16, 1849, at Twelve o'clock at noon, for One pre-AUCTION, on Tuesday, October 16, 1849, at Twelve o'clock at no, at the George Inn, Pilgrim-street, NEWCASTLE-UPON-TYNE,

casely, at the George Init, Fligtin-street, NEWOASTLE-UPON-11NE,

THIRTY-EIGHT (64ths) SHARES
(late of Messrs. Andrew White and Richard White) of and in the well-known currentgoing and most excellent colliery, called the WHITWELL. COLLIERY, situate at WHITWELL, in the county of DURHAM, comprising a royally of supwards of 653 acres, or
thereabouts, of coal of first-rate quality, there being two seams opened ont—the Hutton
Seam and Low Main Seam, worked by two pits, and with pitmen's houses, workshops,
eagines, machinery, and all necessary stock and conveniences for carrying on the colliery

on an extensive scale.

The colliery is situate adjoining to and communicating with the main line of the York, Kweessile, and Berwick Railway (the Durham and Sunderland Branch whereof is constructed to the bank head), and the coal can be shipped either at the ports of Sunderland or Hartlepool, or on the River Tyne. The convenient situation, high reputation of the coal, and many other advantages of this colliery, afford an excellent opportunity for any one desirous of an investment in a colliery, and the purchaser of these shares will be entitled to the acting direction and management of the undertaking.

The colliery may be viewed on application to Mr. Robson, Whitwell Grange, near Durham; and further particulars known on application to Messrs. J. J. and G. W. Wright, solicitors, Sunderland.—Sunderland, August 30, 1849.

COAL.—TO BE SOLD, OR LET, either in one or more lots, all that valuable VEIN of COAL, commonly called the UPPER MOUNTAIN in the county of Lancaster. The mine has been recently proved, and found, at 77 yards from the surface, to be 5 feet in thickness, and of an excellent quality. The above property is within a short distance of the Leeds and Liverpool Canal, and in the midst of a populous and large manufacturing district.

A section of the borings may be seen by applying to Mr. Boosie, Rufford Hall, Ormskirk; or to Mr. Whittle, Charnock Richard, Chorley—to either of whom proposals may be seat.

O BE DISPOSED OF, the MANUFACTURING PRE-MISES, BUSINESS, and CONNECTION (which is of a first-rate character), of a established MACHINERY GREAGE MAKER. BUSINESS, and CONNECTION (which is I MACHINERY GREASE MAKER.

Well established PATENT RIGHTS, FREEHOLD ESTATES, LEASES of FOUNDRIES and ENGINEERING WORKS, FREESTONE QUARRY, and COAL and IRONSTONE MINES; STRARES on a well-known SLATE, QUARRY, the PART, or the WHOLE, of a well-established GAS WORK, & STRAM-ENGINES and MACHINERY of all descriptions. For particulars apply to James Boydell, land, mine, and machinery valuer, and agent, No. 54, Threadneedle-street, London.

SALE OF MINING MATERIALS, BY PRIVATE CON-TRACT, or TENDER, with or without the Lease of the Mine.—The committee of adventurers of the DEAN PRIOR AND BUCKFASTLEIGH MINES, situate in the parish of BUCKFASTLEIGH, country of DEVON, are ready to TREAT with PARTIES for the DISPOSAL of the MAGHINEHY and MATERIALS on the said mines; with also the LEASE, or otherwise, held under the Earl of Macclesdeid, at 1-15th dues, until an engine shall be erected, and then at 1-18th dues. Some thousands of pounds have been expended on the mine, and the machinery is in the most complete and perfect order—consisting of 140-fact wheel, 3 feet is mice breast; 124-feet wheel, 4 feet 6 inches breast; 124-feet wheel, 4 feet 7 in. breast, and 118-feet wheel, 3 feet breast, with sampheads, grinder, 50 fathoms pumps, working barrels, windbores, &c., fixed, and other useful materials.

An inventory may be seen, and all information acquired, on application to Mr. H. English, mining engineer, 25, Fleet-street, London, who is empowered to treat for the disposal of the same, where specimens of the ore, with plans and sections, may be seen, and every information readily afforded.

EXTENSIVE IRON-WORKS FOR SALE,
BY PRIVATE BARGAIN,
THE BLAIR 1RON-WORKS,
Belonging to the Ayrshire Iron Company, with the whole MINERAL FIELDS held by
the said company, under avourable lease, including the MALLEABLE IRON-WORKS,
immediately adjoining, so far as erected—all as particularly described in former advertisementa.—There is a large STOCK of IRONSTONE on the ground, which may be had
at a valuation.

at a valuation.

For further particulars apply to Mr. Biggart, at the works; Mr. Watson, 32, and Mr Brown, 35, St. Vincent-place, Glasgow; Messra M'Clelland and Mackenzie, accountants here; Messrs. Gibson-Craig, Dalziel, and Brodie, W.S., Edinburgh; or Messra. Montgomeric and Fleming, writers, Glasgow—the last being in possession of the title-deeds. Glasgow, June 20, 1849.

VALUABLE AND EXTENSIVE MINES OF COAL

VALUABLE AND EXTENSIVE MINES OF COAL
AND IRONSTONE.

TO BE LET, ON LEASE, on most advantageous terms, the COAL and IRONSTONE
under a very large tract of land, in the parish of RUABON in the county of DENBIGH,
adjoining the Shrawsbury and Chester Railway.
The proprietors of the ESTATES on which the Ponkey and Aberderfyn Iron-Works
were formerly carried on, have made arrangements TO LET BOTH PROPERTIES
TOGETHER, which will give the leases of them facilities to carry on a lucrative business
—very rarely to be met with.
The COALS and IRONSTONE on these ESTATES may be raised at very much less
than an average cost, and the quantity provad in them (hesides what are under a very
large portion of one of them, in which there is no doubt they will be found) is estimated
will supply iron-works with materials to make 400 tons of pig-iron weekly for upwards
of 30 years, as well as 50,000 tons of the much and justify-celebrated Yard and Wall and
Beach Coals per annum for sale, for the assac period.

Printed particulars of the property, and lithographed plans of the estates, showing the
minerals under them, with calculations as to the expense of making iron from them, as
compared with that of manufacturing it in Staffordshire, may be had upon application at
the office of the Mining Journal, 28, Fleet-street; and at J. Roydell's, 64, Threadneedlestreet, London; and at Messrs. Longeville and Williams, solicitors, Oswestry.

DICK FORD'S DATIENYES.

BICKFORD'S PATENT SAFETY FUSE.—The Patentees of the ORIGINAL, and only real, SAFETY TIED and allower Contractors and that, for the purpose of protecting the public in the use of a genuine article, the PATENY EUES has now a thread urrought into the centre, which being patent right, in fallibly distinguishes if from all institutions, and ensures the continuity of the guapowder The Satury Fuse is now protected by a Sacuration and ensures the continuity of the guapowder proved machines; BIOR PORD, SMFH, & DAVEY, Camberne, Correction of the contraction of the support of the continuity of the guapowder of the sature of the support of

STRUVE'S PATENT MINE VENTILATOR.

STRUVE'S PATEN. MINE VENTILATOR.

Cost.—218.0.

TO COLLIEST PROPRIETORS.

Quantity of air passed through a Mine almost unlimited, to the extent of 200,000 cubic feet per minuto, if necessary—depending on size of apparatus.

COST of an APPARATUS to produce a ventilation of 20,000 cubic feet per minuto, ONE HUNDRED and FIFTY FOUNDS, exclusive of patent right. This amount of ventilation would be sufficient for a mine working 150 tons per day, provided it was not very fiery; in which case it would be desirable to provide for 30,000 cubic feet of air per minute. The capabilities of the Ventilator may be doubled at any fature time, at a comparatively small cost.

The Ventilator has been at work for upwards of six months at the Eaglesbush Colliery, near Neath, working under a rarefaction of 2½ to 3 inches of water, which demonstrates the impracticability of furnace ventilation, when the shafts are shallow and the airways small.—It is practical to rarify a mine by this ventilator to the extent of 2 feet of water, or 2 inches of mercary.

LICENSES will be GRANTED on application to

Mr. WILLIAM PRICE STRUVE, Swansea,

CIVIL ENGINERS AND MINESS. MINESS. PLANE

TO THE OWNERS OF COLLIERIES, MINES, PLAN-

TATIONS, BAW-MILLS, &c.

IMPROVED CIRCULAR SAWS, MILL-SAWS, FILES,
Machine Irons, and Cutting Knives, Steel in Blister, Bar, Cast, Shear, and Drift, Steel, Spring
for Railways and Common Reads, Iron Washers, Boils, Hammers, &c., on the most
PERFECT and ECONOMICAL PRINCIPLES, MANUFACTURED with DISPATCH, by BLAKE AND PARKIN, THE MEADOW STEEL-WORKS, SHEFFIELD.

WIRE ROPE.—The Undersigned beg to inform the public, that they have become SOLE LICENSEES of Mr. ANDREW SMITH, for the MANUFACTURE and SALE of his PATENT WIRE ROPE; and having fitted their premises with his very superior improved machinery, have only to assure those who may avour them with their orders, that the same care and attention shall always be bestowed which, they have reason to believe, has secured them such general support.

LIGHTNING CONDUCTORS, SIGNAL CORD, and SASH LINE, always in stock. WILKINS & WEATHERLY.

Patent Wire Rope Works, No. 39, High-street, Wapping, London.

CWMBRAIN PATENT IRON REFINERY.—The PROPRIETORS of IRON FORGES and MILLS are respectfully INVITED to MAKE TRIAL of Mr. BLEWITT'S REFINED IRON, or METAL, PREPARED by a

NEW PATENT PROCESS,

whereby the IRON is completely FREED from the IMPURITIES CONTRACTED in the
BLAST-FURNACE, and, by Judicious mixtures, rendered applicable to every kind of
manufacture. Heretofore, the metal usually sold in the market has been produced from
he worst pigs, scraps, and refuse of some particular blast-furnace, or set of furnaces,
without any mixture, or any regard to quality, or the purpose for which it might be required. The PATENT METAL is PREPARED ON SYSTEM, and TO ORDER, for
any of the following purposes:—

quired. The PATENT METAL is PREPARED ON SYSTEM, and TO ORDER, for any of the following purposes:—

1. For BOILER and TANK-PLATES,
2. For TIN-PLATES, commonly called COKE-PLATES.
3. For STRONG CABLE BOLITS, RIVET, and ANGLE IRON.
4. This COMPOIND PUDDLED, beat under the hammer into a bloom, reheated, and rolled into a 6 or 64-inch bar, makes TOPS and BOTTOMS for FLANCH and OTHER RAILS, of very superior quality, and attended with less waste than any other kind of iron used for that purpose. It is also well adapted for nail-rods, horse-shoes, and for other ordinary uses of the blacksmith.

The PATENT METAL is marked with a squirrel, and the initials "R. J. B and is to be had only at the "Cwmbrain Iron-Works," near Newport, Monmont

PATENT TOUGHENED CAST-IRON-STIRLING'S No. 1—For SMALL and MEDIUM CASTINGS.

No. 3—For HEAVY CASTINGS. No. 3 (Extra)—For ROLLS, HEA No. 3.—For HEAVY CASTINGS.

No. 3.(Exing)—For ROLLS, HEAVY SHAFTS, and VERY HEAVY CASTINGS.

The above is by far the strongest Cast-Iron made, and is now being extensively use where strong castings are required.

Further particulars may be obtained on application to Further particulars may be obtained on application to Section 1997.

7. Quoen-street, Cheapside, from whem also the IRON can be PROCURED.

TO ENGINEERS AND BOILER MAKERS.—The
BIRMINGHAM PATENT IRON TUBE COMPANY
MANUFACTURE PATENT LAP-WELDED IRON TUBES (under Mr. R. Prosser's
Patent) for Marine, Locomotive, and all Tubular Boilers. Also, TUBES for Gas, Steam,
and other purposes. All sorts of IRON GAS FITTINGS.

VORKS—Smethwick, near Birmingham.

LONDON WAREHOUSE—No. 6, Upper Thames-street.

FIVE HUNDRED THOUSAND POUNDS ready to be ADVANCED IN MINES—Coal and Iron preferred, but Copper and Load will not be objected to, if found eligible.

Principals alone will be treated with, but no personal application will be attended to in the first place.

Full particulars to be addressed (post-free) to "F. M.," care of Mr. Hay, civil and mining engineer, 5, Adelaido-place, King William-street, London.

BELFAST.—THE IMPROVED FLAX-DRESSING MACHINERY.—PERSONS requiring MACHINERY for SCUTCHING or DRESSING FLAX from the STRAW, can be supplied on application to the manufacturers, MacADAM, BROTHERS, & Co., ENGINEERS, SOHO FOUNDRY, BELFAST,

MAKERS of the IMPROVED MACHINERY—recommended by the Royal Flax Society Sept., 1849.

BRITISH ASSOCIATION, BIRMINGHAM.—The Proprietors of Collieries and Mines are respectfully informed, that a FULL-SIZED WORK-ING MODEL of "FOURDRINGER'S PATENT SAFETY APPARATUS," for the PREVENTION of ACCIDENTS in PITS, caused by the breakage of ropes or chains, will be EXHIBITED at the approaching meeting.

BANK OF AUSTRALASIA (incorporated by Royal Charter 1835), No. 8, AUSTINFRIARS.—The court of directors GRANT BILLS and LETTERS of CREDIT on the under-mentioned branches—viz. Sydney, Maitland, Melbourne, Geelong, Hobart Town, Launceston, and Adelaide, on terms which may be learnt on application, either at their offices, 8, Austinfriars; or at their bankers, Messers. Smith, Payne, and Smiths.

By order of the board,
WILLIAM MILLIKEN, Secretary.

OANS ON DEBENTURES.—The CALEDONIAN RAIL-WAY COMPANY are prepared to RECEIVE TENDERS OF LOANS, in sums not less than £500.—Applications to be made or addressed to this office.

By order,

125, George-street, Edinburgh, May 30, 1845.

D. RANKINE, Treasurer.

THE PROPRIETORS OF MINERAL ESTATES, who are desirous of MAKING them LUCRATIVE TO THEMSELVES, either by way of SHARES, for a definite term of years, or to SELL the SAME, may hear of CAPITALISTS who are ready to embark in such speculation, provided they can be tolerably well assured that success will attend such undertakings.

cipals only are requested to answer this advertise

Address (by letter, post-paid) John James Coward, Esq., Lansdowne-cresent, Bath, who will also take shares for himself, to a considerable amount, in a bond fide transaction.

TO PATENTEES AND IMPROVERS OF SMELTING O PATENTEES AND IMPROVERS OF SMELTING OFFERATIONS.—The PROPRIETORS of PATENTS, OT IMPROVEMENTS, in TREATING and SMELTING METALLIC ORES, and especially of LEAD, ARGENTINE LEAD, and COPPER, are invited to TRANSMIT to me, for investigation, the details of titler is SPECIFICATIONS and PROCESSES, whence mutual benefits may arise. Operative smelters, communicating the details of their avocations, will be eligible, in rotation, to permanent and lucrative employment.—Address (post-paid) William Radley, Esq., chymical engineer, Turtmagne, Canton de Valais, Switzerland, confidentially.

Loetchen Mining and Smelting Works, Valais, Switzerland,

London, August 20, 1849.

MPORTANT AND VALUABLE SLATE QUARRY, IN CARMARVONSHIRE, TO BE LET, for such term, and on such conditions as may be agreed upon: The above quarry is situated within six miles of Bangor, and within half a mile of the celebrated Penrhyn Quarry, being, without the slightest doubt, of the same vein and metal. The undertaking would suit a joint-stock company, or a private speculator, as it can be brought into early and extensive work, at a comparatively small outlay.—For particulars apply to Mr. Elias P. Williams, Queen's Head, Bethesda, near Bangor.

MINING PROPERTY.—Mr. JAMES HERRON, MINE AGENT, 38, CLEMENTS-LANE, LOMBARD-STREET, has received instructions to DISPOSE of SHARES in FIRST CLASS MINES, paying regular dividends, and yielding to the purchaser from 174 to 25 per cent. upon his outlay. He is also in a posi-Rey, Santiago, United Maxich, Glowing-mis., Jungerial Brazilian, Cocaes, St. John del Devon Consols, South Wheal Frances, East Wheal Rose, East Pool, Trelawny, South Wheal Basset, Condurrow, and Great Consols Mines.

MR. HENRY VATCHER, MINING AND RAILWAY SHAREBROKER, EXETER.

etent and experienced AGENTS provided to INSPECT MINES, at the shortest notice,

MR. C. S. RICHARDSON, CIVIL ENGINEER, LAND AND MINING SURVEYOR, Ao. 15, OLD BROAD-STREET, CITY.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON.

CAMBORNE CONSOLS MINING COMPANY—NOTICE AMBORNE CONSOLS MINING COMPANY—NOTICE
OF CALL.—Notice is hereby given, that the directors have this day resolved that
the subscribers, or shareholders, in this company PAY, and they are hereby required to
pay, on or before the 25th day of 8ept, next, into the bank of Mosars. Fract and Co., 189,
Fleet-street, London, a CALL of ONE POUND upon each and overy share held by them
in this company, and that, pursaant to article 116 of the company's Deed of Settlement,
all and every share, or shares, upon which the said call of £1 per share shall not be paid
wishin 14 days after becoming due, will be subject to absolute forfeiture.

By order of the board of directors,

H. L. T. VON USTER, Sec.

DEAL DEL MONTE MINING COMPANY,—The Holders of SHARES in the LATE REAL DEL MONTE COMPANY are hereby informed, that the PURCH ASERS of the PROPERTY in MEXICO have RESERVED for them cortain SHARES of the NEW COMPANY, in MEXICO; particulars of which may be ascriained on application (before the 26th inst.) to Mr. Phillips, No. 6, Queen-street-place, Southwark-bridge—removed from No. 2, Duke-street, Adelphi.

WHEAL BENNY.—At a General Meeting of the adventurers, held at the offices, No. 4, King-street, Cheapside, on Thursday, the 6th Inst., RICHAED THORNTON BROWN, Esq., in the chair, A CALL of TWENTY SHILLINGS per share was made, payable in two instalments, of which 10s. per share to be PAYABLE in 30 days, to the bankers of the company, the Union Bank of London, in the name of Jonathan Pickering, Esq., and others; and the remaining 10s. per share to be called when wanted, at the discretion of the committee. F. W. P. CLEVERTON, Purser.

JAMES CROFTS, Secretary.

WHEAL MARY CONSOLS MINES.—TO BE SOLD,
BY PRIVATE CONTRACT, the ABOVE valuable MINES (consisting of Wheal
Mary, Wheal Sisters, and some smaller setts), with the whole of the valuable MATERIALS
thereon, including TWO excellent STEAM-ENGINES, TWO WATER-WHEEL DRAWING MACHINES and CRUSHER, and every other requisite for WORKING an extensive COPPER MINE.

The present adventurers have sold from these mines, mostly within the last three years, opper ores to the amount of £35,023, and tin to the amount of £7698. The workings of its have been on two tin lodes and one copper lode, and the driving a cross-cut, to instact another copper lode.

tersect another copper lode.

At the 50 fathom level west, on the copper lode, is a course of ore, I ft. big, just coming under ground, which was productive for a great distance in the level above (the 25), and under the 50 the course of ore in two sinks averages about the same size as in the end This lode has been worked at a loss, for want of a new shaft, 50 fathoms deep—to the expense of which some of the present shareholders decline contributing, but others of them are ready to join in purchasing and carrying on the mine.

For further parliculars, and to treat for the purchase of the whole, or part, of the ern, apply to Edward A. Crouch, Liskeard.

Dated the 31st of eighth month (August), 1849.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTHLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to CEYLON, MADRAS, CALCUTTA, PENANG, SINGAPORE, and HONG-KONG. THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY

SOOK PASSENGERS and RECEIVE GOODS and PARCELS for the ABOVE PORTS by their steamers—starting from Southampton on the 20th of every month; and from nez on or about the 10th of the month.

BOMEAT.—Passengers for Bombay can proceed by this company's steamers of the 29th of the month, to Malta, thence to Alexandria by her Majesty's steamers, and from Suez by the Honourable East India Company's steamers.

MEDITERANEAN.—MALTA—On the 20th and 29th of every month. Company's new Alexandria.—On the 20th of the month.

SPAIN AND PORTUGAL.—Vigo, Oporto, Lisbon, Cadiz, and Gibraltar, on the 7th 17th, and 27th of the month.

For plans of the essels, rates of passage-money, and to secure passages and ship cargo, apply at the company's offices, No. 122, Leadenhall-street, London; and 57, High-street. Southampton

EMIGRATION.—VAN DIEMEN'S LAND AGRICUL-

(Emphished by Act of Performent and by Royal Charter.)
OFFICE—No. 6, GREAT WINGHESTER-STREET, LOBDON GOVERNOR—EDWARD MARSHALL, Esq.

ads of the company having recessity been confirmed by Act of Parliamens, enabled to OFFER FOR SALE the FEE SIMPLE of every portion of any of FOUR HUNDRED THOUSAND ACRES, in various parts of the

but more particularly invite the attention of emigrants to the Constant lar Head and Emus Bay.

Sompany's district at Circular Head contains 20,000 acres, of which 4000 acres lie promoting and the residue on the adjoining main land. The climate much referringula, and the residue on the adjoining main land. The climate much referringula, and the residue on the mabling the farmer to carry on his operations mer, and frost in winter—thus enabling the farmer to carry on his operations when the year; and the soil on the main land, though for the most part heavily hout the year; and the soil on the main land, though for the most part heavily is the easily worked, and producing luxuriant crops of potatoes, wheat, and every isole, easily worked, and producing luxuriant crops of potatoes, wheat, and every time of European grain, fruits, and vegetables, as shown by the result of a thriving tion of European grain, fruits, and vegetables, as shown by the result of a thriving time of European grain, fruits, and vegetables, as shown by the result of a thriving time of European grain, fruits, and vegetables, as shown by the result of a thriving time of European grain, fruits, and vegetables, as shown by the result of a thriving time of European grain grain of European grain, fruits, and vegetables, as shown by the result of a surface and the soil as stone-built church, holding 600 acres to the properties of the surface and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and the soil is a rich deep loam, peculiarly avourable and snow are unknown, and

ON NERVOUS DEBILITY AND GENERATIVE DISEASES. lied, the fortieth thousand, an improved edition, revised and ed sublished, the fortieth thousand, an improved edition, revised at s, price 2s., in a sealed envelope, or forwarded, post-paid, by th uss, socure from observation, for 2s. 6d., in postage stamps, tilt and the sealed experience of the sealed stamps of the sealed sealed and the sealed sea

MANHOOD: the CAUSES of its PREMATURE DECLINE ANHOOD: the CAUSES of its PREMATURE DECLINE, with plain directions for its perfect restoration. A Medical Essay on those discording the excesses, the effects of climate, and infection, &c., addressed to the sufferer in manhood, and old age; with practical remarks on marriage, the treatment and of nervous and mental debility, impotency, spihlis, and other urino genital disease, the care the most shattered constitution may be restored, and reach the full period in colour, explaining the various functions, secretions, and structures of the reproduction, explaining the various functions, secretions, and structures of the reproduction of the production of t

We feel no hesitation in saying that there is no member of stotal will not be found useful—whether such person hold the relation of a parent, preceptor, will not be found useful—whether such person hold the relation of a parent, preceptor, or a clergyman.—Sus, Evening Paper.

J. L. Curris, On Manhood, and the Gauss of its Pressature Decime: with Plais Directions for the Perfect Exteriors.—[Strange, Paternoster-row.]—This is about replete within surface of the person of the perfect Restoration.—[Strange, Paternoster-row.]—This is about replete within surface of the period of human happiness is wrecked, and furnishes a chart by which they may be pertion of human happiness is wrecked, and furnishes a chart by which they may be represented and formation of the thin surface of the patent with the period of the period of the period of the patent was been and the transfer of the patent with the period of the patent with the patent with the patent of the patent

tomical Coloured Engravings on Steel, On Physical Disqualifications city, and Impediments to Marriage. New Edition, onlarged to 19th pled, price 2s. 6d., or by post, direct from the establishment, 3s. 6d

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LAMERT ON THE SECRET INFIRMITIES OF YOUTH AND MATURITY

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"The author of this singular and talented work is a legally qualified medical man, who has evidently had considerable experience in the treatment of the various disorders, arising from the foliac and frailities of early indiscretion. The engravings are an invaluable at the solidary of the solidar

ELECTRIC TELEGRAPHS.—No. IV.

In 1839 Mr. Davy, of London, invented an electro-magnetic printing telegraph, in which he also employed clockwork, producing a step by step motion, very similar to the seconds' hand of a clock; on a cylinder, in connection, was a prepared fabric, such as calso, which had been previously saturated with a chemical solution (hydriodate of potass and muriate of lime), so that when an chemical solution (hydriodate of potass and muriate of lime), so that when an

In 1839 Mr. Davy, of Lossing, invented an electro-magnetic printing islargraph, in which he also supplyed clockyrock, producing a step by step matina, very similar to this seconds' hand of a cleak, on a cylindre, in connection, was a prepared fabric, and archive, which had been previously saturated with a hermited solution (hydriodate of potas and muritime), the state of the hermited solution (hydriodate of potas and muritime), the head of the current was made to pass through a platina range, which rested on the also the current was made to pass through a platina range, which rested on the chemical decomposition immediately took place, and a decomposition of the prepared fabric a their party promotes the consideration of the prepared fabric to the state of the consideration of the prepared fabric to the state of the consideration of the prepared fabric to the state of the consideration of the prepared fabric to the state of the consideration of the prepared fabric to the state of the consideration of t

A FEW BEMARKABLE FACTS ABOUT ELECTRIGITY AND the colts of wire was such as to present the whole influence on the magnet. To obviate whole influence on the magnet is introduced, instead of a usedle, the magnet is introduced, instead of a usedle, the same of the colts of the colt

By this it will be seen, that from aix inches to the centre there is no available power; hence it became evident that a great amount of electric power was uselessly expended in having to overcome such dead part of the magnet was uselessly expended in having to overcome such dead part of the magnet (magnetic needles). In the old telegraphs, during my experiments, and whilst (magnetic needles). In the old telegraphs, during my experiments, and whilst vertently placed two magnetic needles across each other, in the form of the letter X. Whilst holding the same with its lower ends in the neighbourhood of a coil of wire, through which a very small amount of battery power was passing, I was astonished at the sudden force with which the same was thrown as doe, when held in a position transverse to the coils of wire. Here, then, was as one the true principle satablished for my guidance in the construction of a simple, if not the simplest, electric telegraph ever brought before the scientific world (it is, at least, acknowledged as such). Instead of using an oblong coil of wire, seven inches long by three wide, a much greater amount of electric influence is obtained with a reel er coil of wire one and a half inch in diameter, by one inch wide. The needle, instead of being used straight, is bent into the form of a ring, or horse-shoe, with its poles close together, and so placed that the same takes a transverse motion across the coil of wire. The placed that the same takes a transverse motion across the coil of wire. The placed that the same takes a transverse motion across the coil of wire. The placed that the same takes a transverse motion across the coil of wire, the olded part of the magnet being entirely without the coil. At the same time dead part of the magnet long entirely without the coil, at the same time made to perform a useful office by carrying the indicator. Thus it will be seen that my object was to concentrate all the available power of the magnet, into one centre. With the aid of a diagram, this very sim

ON PYROGEN.-No. XV.

The power that pyrogen possesses of polarising matter, is developed in the experiments of Messrs. Robert Hunt and Grove. The former of these gentlemen found that, by placing a glass trough on the poles of a powerful magnet, and filling it with a liquid, not which a precipitate was slowly forming, the precipitate arranged itself in the magnetic curves. He also observed, that crystallisation taking place under estimate incumstances, exchibits the operation of the same industry that the properties of the same industry in the same industry. In the same industry, and in the same industry in the The power that pyrogen possesses of polarising matter, is developed in see experiments of Messrs. Robert Hunt and Grove. The former of these ten found that, by placing a glass trough on the poles of a powerful

when the letter A was intended to be transmitted, or other letters, just as it might happen.

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of the principle, which consists in applying to the boliers of engines, or other vessels, for evaporating or heating fluids, a cellular apparatus, such as will be easily understood by the engraving. They are constructed of malleable cast-iron, and are hollow throughout; one such set of tubes being placed underneath the boiler, over the fire, and two other sets within the boiler; they are connected togsther by bent tubes, as shown, so that all the tubes have a free communication with each other, but the water contained in them is insulated, and is, therefore, distinct from that in the boiler, by which means it can be raised to a temperature of 400° or 500° Eahr. without being converted into steam. The general size of the boiler, which is of the waggon form, without a flue; is 6 ft. 9 in. long, 3 ft. 6 in. wide, and 2 ft. 6 in. high; the area of the bottom is about 21 superficial feet. It is set with brick flues, so as to circulate the heat round the concave sides and the ends, being in this respect like an ordinary boiler. The flue surface is about 23 ft. 7 ft. in respect like an ordinary boiler. The flue surface is about 23 ft. 7 ft. in respect like an ordinary boiler. The flue surface is about 23 ft. 7 ft. in fire the plates exposed to the direct action of the fire is about 25 ft. and that of the surface is about 25 ft. and that contained in the cellular vessels about 7 gallons. The quantity of water evaporated by this boiler is about 12 cubic feet per hour, matking it capable of raising steam sufficient for a 12-horse power engine, although its dimensions are only equal to that of an ordinary 4-horse power boiler. By this arrangement the flame can only imping on the boiler through the perforations in the cellular vessels, and all remaining caloric passes over the bridge, and among the remaining portions of the tubes, causing the insulated water herein to take up a large portion of the heat, which heated water circulates through the tubes, which the testes and the insulated water herein to take up a large port ROTARY ENGINES.—Messrs W. and Thomas Schnebley, Hagerstown, Maryland, have patented some improvements in rotary steam-engines, which they describe as consisting of "two radial pistons on a rotary wheel within a permanent steam chamber, extending entirely around the piston wheel, being provided with one steam stop and a steam port on one side, and an exhaust port on the other side. The two pistons divide the circle into two equal parts, and are alternately acted upon by the steam, which during the action of the engine is continually issuing from the steam port. Chaim.—What we claim as our invention, and desire to secure by-letters patent, is—1. The enlarging the sides of the steam chamber from the point where the pistons begin to be drawn in, to the point where they entirely protruded, to avoid friction in that part of the circuit of the piston in which they are not acted upon by the steam, as set forth, in combination with a steam chamber which entirely surrounds the piston wheel, whereby the steam from the steam port acts alternately on the two pistons, and a portion of the circuit passes by the piston that has not yet been entirely protruded, to act in the one that is protruded and which is within that pistons, and a portion of the circuit passes by the piston that has not yet been entirely protruded, to act in the one that is protruded, and which is within that half of the chamber which is not enlarged.—2. The method of overcoming or balancing the pressure of steam on the outer ends of the piston, while being forced in and out by means of steam ways leading from the steam chambers on each side of the pistons, to the inner ends of the pistons, that the steam from the steam chamber may have access thereto, in combination with a valve placed between the two, to prevent the steam from passing around from the steam chamber to the exhaust chamber, as set forth.—3. We claim connecting the moveable pistons with the shaft or hub of the steam wheel, by means of toggle joint levers, in combination with the connecting rods and cams, whereby the pistons when forced out are held by the toggle joints, and are thereby prevented from making friction against the periphery of the steam chamber, by centrifugal force, as set forth.

The Wonderful Cures performed by Hollander and the content of the steam chamber, by centrifugal force, as set forth.

by the inventor, we again call attention to its merits, with a full description of the principle, which consists in applying to the boilers of engines, or other vessels, for evaporating or heating fluids, a cellular apparatus,

such as will be easily understood by the engraving. They are con-

fugal force, as set forth.

THE WONDERFUL CURES PERFORMED BY HOLLOWAY'S PILES ASTONISH.

EVENDOR.—They remove complaints which the faculty pronounce incurable; debilitated constitutions are by their use completely invigorated; the nervous, the delicate, and the weak are made strong, and there is no other medicine known that is so certain and effectual in curing indigestion, and all bilious, liver, and stomach complaints, as Holloways Pills. They are also an excellent remedy for dropsical affections, and every disease incident to females, and stand unrivalled as an established family medicine, as they purify the Blood, cleanes the system, strengthen the body, and reinstate it in the scandest health, and often after every other remedy has failed.—Sold by all druggists and at Professor Holloway's establishment, 244, Strand, London.

WRIGHT'S PATENT STEAM GENERATOR.

In the Mining Journal of the 21st April last, we inserted the above diagram, with remarks; and the apparatus which it represents having now been in use for some months, and fully borne out the advantages claimed

Manufacture of Metal Pipes on Tubes.—Mr. Job Cutler, Birmingham, has recently patented some improvements, the first of which has relation to the application of machinery for drawing metal pipes, when formed, from of the mandril upon which they have been rolled, and with much less risk of causing them to crack or break than the means now employed for that purpose. This improvement the patentee limits to such pipes are made of alloys of metal. The metal is first cast in the form of a short pipe, and, when cleaned, is heated and put upon a mandril, and passed successively through rollers, the grooves in which diminish in size, so that the pipe is formed in thickness and correspondingly increased in length on its passage through each successive pair of grooves. The metal out of which the pipe is formed is hot during the whole process, so that it does not require to be taken off from the mandril and annealed until finished. To take the pipe from off the mandril, and, therefore, to be easily withdrawn therefrom. A plan of loosing the mandril, and, therefore, to be easily withdrawn therefrom. A plan of loosing the mandril by means of swedges and a till-hammer, is also described. The second improvement is in rolling the scabbard or sheaths of swords in a similar way to rolling pipes. The grooves are made the proper shape in the rolls, and a mandril of flat seel is employed instead of the round one used for pipes. The third improvement is making them true and of an uniform thickness. This is effected by the proper shape in the rolls, and a mandril of flat seel is employed instead of the round one used for pipes. The third improvement is in coating the outsides of pipes, for the conveyance of gas and fluids underground, with the pipes by means of a galvaria carrangement. The fifth improvement is in coating the outsides of pipes, for the conveyance of gas and fluids underground, by any of the usual processes employed for enameling pans and other articles made of iron; or both the outside and inside of such pipes are ename

described.—Franklin Journal.

CURIOUS IMPOSITION.—On Monday three men were committed for trial at Liverpool, charged with defrauding a tradesman, named Lumb, by selling him, for gambier, at 13l. per ton, a compound of resin and chalk, worth only 1s. 9d. per cwt. Dr. Brett, the celebrated chemist, who was called as a witness, deposed that, taking a hundred weight of it, there were 32½ lbs. of resin to 79½ lbs. of chalk. One cask contained merely sand, covered with oxide of iron. Gambier, which is known as terra japonica, was a substance used in tanning, dyein, and other operations requiring a quantity of astringent matter.

NEW CHEMICAL WORK.—A pyroligneous work, on an extensive scale, is at present being erected at the Maidens, on the Carrick shore, some distance south of Ayr, to resolve wood, by the action of fire, into acids, alkalies, resin, and other valuable substances. The work is being erected by the Marquis of Ailsa, and will be conducted under his management, the matériel being refuse wood on his plantations. It is expected to be in operation soon.—Ayr Adver. The Timber-Presenting Company.—The half-yearly meeting was held

wood on his plantations. It is expected to be in operation soon.—Agr Adver.

The Timber-Preserving Company.—The half-yearly meeting was held on the 31st August, at their offices, Whitehall-wharf, Westminster, when, after reading the report of the company's operations for the past six months, and laying before the shareholders a statement of the accounts, as prepared by Messrs. Quilter and Ball, a dividend at the rate of 6 per cent. per annum was declared, the chairman, Mr. George Burge, stating that their future prospects were most encouraging, and, from the daily increasing extent of their works, he had no doubt he should be in a position, at the close of the next half-year, to meet them with a larger amount of dividend.

GREAT NORTHERS RAUMAY.—Another important section of this line has

to meet them with a larger amount of dividend.

GREAT NORTHERN RAILWAY.—Another important section of this line has just been opened, which will very much increase the facilities of transit into Yorkshire and Lancashire from the south, and to the eastern and Midland counties and London from the north. Commencing at Doncaster, the new line (which is a portion of the Great Northern main trunk or towns line) proceeds to Rossington (4# miles), Bawtry (8# miles), Ranskell (12 miles), and Retford (17# miles). At Retford it joins the Manchester, Sheffield, and Lincolnshire Railway, which connects the route to Gainsborough, where the Great Northern loop terminates. By the opening of the Methley branch of the Lancashire and Yorkshire Railway, the Great Northern line will now afford a direct communication from London to Leeds and York.

cation from London to Leeds and York.

CORK AND BANDON.—We are authorised to state, and we have much pleasure in doing so, that a contract has been entered into between the directors of this company and Messrs. Fox, Henderson, and Company, eminent railway contractors, on favourable and satisfactory terms, for the completion of the line to Cork within one year from the present period. The works are to be commenced immediately.—Cork Reporter.

FRENCH RALIGRAD.—The net work of railways in France cover an extent of 5525 kilometres, of which 2883 are, or soon will be, ready for traffic. The total sum to be expended is 53,535,000 f., of which 59 per cent. has already been expended.

Deen expended.

IMMENSE BLOCK OF GRANITE.—Last week a "muckle hole" (a term used by the quarriers of stone) was put down 15 feet deep through solid granite, in one of the quarriers in Stitblans, near Penryn, belonging to Mr. Elliot, of the latter place. Only 25 ibs. of powder were deposited, which being blasted was found to have thrown off from its bed and side joints a block containing 20,300 cubic feet, or 1400 tons, of excellent quality and blue colour, thus enabling the workmen to cut blocks of any dimensions required.—West Briton.

SHREWSBURY AND BIRMINGHAM RAILWAY COMPANY.

SHREWSBURY AND BIRMINGHAM RAILWAY COMPANY.

TO THE EDITOR OF THE MINING JOURNAL.

SIR.—At a meeting of the shareholders in this company, held at the Swan Hotel, on the 30th ult., some proceedings took place, of which, I think, I have just cause to compain. Reference was made by a shareholder from Bliston to some charges that had been made against one of the directors, and he had been told to suspend his judgment until the committee appointed to investigate these charges should have made their report; that those charges had seriously in jured the property of the shareholders, and he wished to know why these charges had not been reported upon. The chairman replied, that the report had been made, and now lay before him—would they wish it to be read to the meeting? The answer from several voices in the middle of the room was "No, no." The shareholder I have referred to left the meeting without requesting the chairman to read the report, which, I think, was an act of injustice to the director referred to. I have complained over and over again about this report having been kept back so long, but was assurance I consented to become one of the retiring directors (athough I had no need to have done so), so that if any of the charges against me were proved, the class B shareholders might place their interests in honester hands; but I never supposed my re-election was to take place with these charges hanging over my head, which was done by keeping back the report, and of this I strongly complain. However, the class B shareholders had not lost their confidence, and I was again appointed their servant—for this I tender them my best thanks. The report of my judges—a copy of which I send you herewith—has given me a full acquittal. I never for a moment doubted this result, for not one of the charges was founded in fact, and the vertich has fully justified my expectation.

Weiverhampton, Sept. 1, 1849.

G. B. Thorneyecroyt.

them my best thanks. The report of my Judges—a copy of which I send you herewith—has given me a full acquitist. I never for a moment doubted this result, for not one of the charges was founded in fact, and the verdict has fully justified my expectation.

Wolverhampton, Sgpl. 1, 1849.

Report of the Committee of Directors of the Shrenebury and Birmingham Railway Company, appointed by the board to enquire into the allegations of Mr. Charles Geach, of the Patent Shaft and Azietree Company, for wheels and aziets.

"Your committee invited the attendance of Mr. Geach and Mr. Thorneycroft, and in the presence of those gentlemen the correspondence of the former with the chairman and the secretary of the company was read, in the course of which Mr. Geach explained to your label the secretary of the company was read, in the course of which Mr. Geach explained to your label the secretary of the company was read, in the course of which Mr. Geach explained to your label the secretary of the company was read, in the course of which Mr. Geach explained to your against Mears. Thorneycroft and Perks, this they, as members of the carriage committee, and with a view to their own gain, had induced the other members of that committee to fix upon descriptions of iron for axies and tyres involving an outlay on the part of the company amounting to 689. 5s. 10d., (should be 689. 1ls. 8d, there being an error in Mr. Geach; ealculations) on the contract entered into beyond what wheels and axies, equally efficient, might have been applied. The charges against the secretary of course of the company and the secretary of contract the contract of the company and the secretary of contract the contract of the company of the contract of the company of the contract of the contract of the company will be seen the contract of th

in order to arrive at a correct decision on the matter; and it appears to your committee, from opinion expressed by practical men, that the carriage committee were justified in selecting a description of Iron which, if not the lowest in price, is considerably under the highest.

"In reference to charcoal iron tyres having been adopted by the carriage committee with a view to their being supplied by Messrs. G. B. Thorneycroft and Co., it appears in evidence that at a meeting of that committee on the 25th of July, 1848, when four members were present, and on the 13th of Cotober, 1841, when six members were present, the adoption of charcoal tyres for the future stock of the company was decided upon, having also been previously adopted for the sample stock. The stipulation for Thorney-crofts charcoal tyres, entered in the minute of the carriage committee for the 9th of January last, and subsequently in the specification, is stated by the secretary to have been so entered by him without the knowledge of Mr. Thorneycroft, and under the impression that Messrs. Thorneycroft and Co. had a patent for the manufactures of the same article having been named to your committee. It is but right to state that Mr. Geach himself, in his letter to the chairman of the 20th March, has fallen into the same mistake, and that so soon as the error was discovered, and before any part of the contract had been executed, it was amended by the substitution of the words 'best charcoal iron.' Mr. Geach has supplied your committee with the prices of iron furnished by Messrs. Thorneycroft, in answer to applications from makers of wheels, and justifies his charges on what he believes to be the rule of the manufacturers of charcoal tyros, that an inferior article is put on the back, and only a small portion of charcoal iron on the face. Mr. Thorneycroft, on the contrary, has stated to your committee that the tyre is made one half of a mixture with Indian charcoal pig (the latter costing 71. 10s. per ton), and the other half entirely of Staffordshi

LIABILITY OF RAILWAY COMPANIES FOR ACCIDENTS.-A person in Stirling ntered an action against the Scottish Central Railway Company for compensation for damage done to a horse, in passing a level crossing of the road over the line. The defence was, that the injury arose from no defect in the rails, but from an erroneous and unusual manner of shoeing the horse. The sheriff substitute, however, after carefully going through the evidence, decided that the horse was being conducted along the road in proper time and manner—that his shoes were in proper order, and that no blame could attach to his construction of the ductor—that the injury was inflicted by a defect in the construction of the check rails, they being of too narrow a gauge, and extremely calculated to catch and twist the sect of horses in passing—that similar constructions on other lines did not justify the continuance of these, and which rendered the defendants liable. The horse had been sold at a diminished price from his former value, and the company were convicted in penalty equal to the loss.

RED-HOT IRON.-M. Bontigny, says a contemporary, has made the discovery RED-HOT IRON.—M. Boutigny, says a contemporary, has made the discovery that you may play with molten iron with impunity. But, 30 years or more, a lecturer—Mr. Dalton, we believe—visited this country, and, after immersing his hands in steam and boiling water, said the same might be done unharmed with red-hot iron. He related that, being once in a foundry, he saw young lads running barefoot over iron that had just flowed from the furnace; and, putting off his shoes and stockings, he prepared himself to following their example. "But," he added, "my heart failed me, and I put them on again!"

Mr. Geach makes it 1571. 5s. 10d., but he states the difference of weight at 60 lbs. per axle.
Mr. Geach makes the difference 4451. 10s. 6d., but he has taken the weight and price of tyres for 3 feet 6 inches wheels, instead of 5 feet; he might, however, have stated it at a larger sum, as he admits having since supplied his iron for a contract for tyres at 10d. 10s. per ton, being little more than the price of South Staffordshire iron.

THE MINING JOURNAL,

FOREIGN INTELLIGENCE.

FOREIGN INTELLIGENCE.

Caprocasts.—Further advices have been received from the United States and California during the week, but containing nothing of a very important character. Wooden, iron, and sinc houses were in great demand; and, it is said 300 sail of vessels will arrive at San Francisco before November, in which sharacter. Wooden, iroo, and since houses were in great demand; and, it is said 300 asil of vessels will arrive at San Francisco before November, in which at least 1000 houses of this description will arrive. Of the numbers constantly arriving, many returned without visiting the gold region, disgusted with the difficulties and shifts they were put to, and poorer than they started. Many kinds of goods were as cheap, or cheaper, than in New York, satables and house rent only being most exorbitant. Towns are-springing up all over the country, and already have sites been laid out for 15, on all of which many buildings were creted. Gold was beginning to come in, and it was estimated in New York (on what data we are not told), that for the year commencing June 1, \$20,000,000 worth would be obtained. Gold dust was selling \$15\] per oz., and \$16 in exchange for provisions. Of the gold region itself, we have an account from a gentleman who owns an estate in Chili, and is a scientific and practical miner; be is now in the plains of the Sacramento, with a party of 14 of his own men, principally gold washing in the Juba river; he is well provided with every nocessary, boats, horses, tents, cooking apparatus, &c.; and, from his very style, we think his observations may be relied on: he says—"The banks of the river abound in deer and elk, hares and rabbits. Of the feline tribe I have noticed only one, killed by one of my men, of the small parather species. Grizzly bears, of a large size, are numerous. The emithology of this part of the country is poor, and of very little variety, with the exception of the aquasite brids. Ducks, geese, the commentar, and the stork are very numerous. The land birds noticed by me were—the raven, the common crow, the gar-falcon, and the white hawk, besides a species of mocking birds with a blue plumage. Lawe also noticed ones species of humming bird of the dwarf kind, with very beautiful red and green plumage. Battlemakes abound on the banks of the river, although they are said not to be a venom adventurers who nirst looked to these regions, and who, finding gold so abundant on the surface, gave themselves little trouble, and did not care to penetrate into the bowels of the earth. The gold runs in a regular strata, formed, in my opinion, by the alluvial deposit from the neighbouring hills during a lapse of ages, and, as a natural consequence arising from the gravity of the metal, the sub-strata is infinitely richer than that upon the surface. I am, at present (June, 1849) working at a place on the Juba where the gold has already been taken from the surface, and I find that the deeper I dig the richer the earth is. As a proof that this gold is all alluvial (or brought down by the river), it is found in greater quantities at a bend where the rives from a bar. I have also observed that where the bills on the sides of the river are bold and precipitate, the auriferous deposit is generally greater than where they run in a gentle slope. As yet, I have seen no voins of gold in these mountains, but a specimen of gold imbedded in a matrix of white quarts was shown to me, said to have been brought from the Snowy Ridge. It was exceedingly rich, the greatest part of the stone (ore) being pure gold, and weighing about 4 lbs. tray. That the beds of these rivers contain incredible riches I have little doubt, because, after the freshets occasioned by the melting of the snow are reduced, and a part of the course of the stream is lied dry, the earth dug out is much richer than that found up the banks, which is casily accounted for, as the principle bed of the river receives the auriferous deposit from all the hills which it passes from its source, whereas the higher banks can only be enriched by the gold washed down from the nearest mountains. Although there has been much exaggeration in the statements with regard to the gold in California, which I had seen previous to my arrival in this country, nevertheless lis riches appear almost incredible, and I have much heistation in stating the quantities of gold which I know p

Papers from Launceston and Hobart Town, to the 4th April, have arrived, but their contents present little for extract. The markets were steady, and wheat, according to quality, sold at from 3s. 6d. to 4s. per bushel, while flour remained about 10t per ton. Shipments of goods were being made to California, but the movement was not attended with the excitement which prevailed at Sydney. One vessel had made the voyage, and was, at the date of these accounts, taking in cargo for a second trip. The new coal mine at Knocklofts was being brought into active operation, and the expectation was that its situation would render a supply available for Hobart Town at moderate prices.

COVERY OF COAL IN EGYPT.—The Journal des Débats publishes a letter from Grand Cairo of the date of the 1st of August, which announces the dis-covery, by a French civil engineer, of a stratum of coal in the vicinity of the covery, by a French civil engineer, of a stratum of coal in the vicinity of the Nile, towards Upper Egypt. This is a most valuable discovery, inasmuch as it will relieve the Government from the onerous tribute paid to England for the purchase of this indispensable article. Two engineers, an Englishman and a Frenchman, were employed to investigate the lands in the vicinity of the Nile, for the discovery of coal about three years ago; but these superficial inquirers reported that there was none, and that, moreover, none would be found? The Frenchman first mentoned, more diligent and more skifful than his predecessors, has completely overthrown this bold assertion. The samples have been referred to a commission, and the excavations will be continued on a large scale.

[From the Plymouth Journal.]

WEEAL FRANCO.—There is little or no change here; the deep levels are certainly nooking worse than they were when we last reported.

looking worse than they were when we last reported.

TATHOCKY CONSIGN (late Wheal Ash).—I expect to be under the large gossan in the pit by the hedge within three weeks; the lode is a very promising one, and has rather more spar mixed with hie mundle.

WHEAL ANDERTON.—This mine is on the whole looking well; the lodes recently cut in the shode pits are very fine, and much may be fairly expected from them in the 80 fm. level, the depth at which they will be first seen in this mine.

PLYMOUTH WHEAL YNGLAYD.—The agents, on the 4th inst., state, in addition to our report of the 23d of March, we beg to say that the lode in the engine-shaft is much improved in appearance. The two see of the lode is producing fair work to tin. We find

proved in appearance. The two feet of the lode is producing fair work for tin. We find the lode is getting into a more settled state as we go deeper, and seeing this, we beg to arge the sinking of the shaft with all speed. We hope that the adventurers will persevere in giving this lode a fair trial, as we believe they will be remunerated for their great outlay. The present encouraging appearance of the lode, and the superior quality of the tin, which realised at the last sale 44t, per ton, are, we think, sufficient inducements.

in, which reglized at the last sale 44. per ton, are, we think, a unficient indicaments.

Bixon Ton any Virires Mines. — Vitiger Lode: Dunstan's shaft is in the 20 fm. level, and the lode is as promising in the bottom of the shaft as it was when we first cut the lode 18 fms. above; now we have a piece of ground before us 800 fms. long, and 26 fms. high, and judging from the work done by us, and from the large works made by the sacients, we have a good paying mine already open. The 10 fm. level, east of his shaft, has been driven 18 fms.; in driving this end, we cut the large cross-course by which the lode was disordered for the first 15 fms.; for the last 16 fms the lode lose of the shaft as pen directly and we have also a good branch of tin there, and we have also a good branch of tin the present end. The 10 fm. level, west of this shaft has been driven 12 fms.; in driving this level we had a bard bar of ground for about 15 ft., through which the lode was poor; as soon as the ground changed by the side of the lode, the lode improved, and we have a paying lode in the end — Birch Tor Lode: The stopes in the back of the 10 fm. level, west of Frideaux shaft, is improved; they were let in Jame for 12s. in 11., for it in the ground the larged; the stopes cant of this alant as also mypored, they are now about 10 fest above the back of the level for 7 fms. in length; there is a little fin in each of the each in the ends in the deep salt level—this end does not improve as might farily be expected from its appearance. I am expecting a good lode every day.—North Lode: The cross-cut is said as the salt in the soul to the salt worth above 61, per fm. I beg to say, that if the ground before us is worth no more than 81, per fm., which is very low, I can pay you very good profit.

Mining Correspondence.

BRITISH MINES.

ALFRED CONSOLS.—The lode in Field's engine-shaft, sinking under the 56 fm. level, is from 6 to 7 ft. wide, and has a regular orey course on the north part, 2 ft. wide; the other part of the lode is looking very promising, being more spary, the hard capel having nearly disappeared; the lode in the 50 fm. level, east and west, is just as reported for some time past—large, and dredged with copper ore. The lode in the 40 fm. level, oast of the engine-shaft, is about 5 ft. wide, composed principally of capel and carbonate of tron.

BARRISTOWN.—In the end driving east over the adit level the branches are more numerous, and containing more ore; the stopes in the back and bottom of the adit level are looking much the same for ore as for some time past. The stopes in the back of the 16 m. level are producing about 6 cwts. of lead per fm. The stopes in the bottom of the adit level, west of Dooge's shaft, are producing about 10 cwts. of lead per fm.; in the winze sinking to the west of this the lode is large, producing at presents a small quantity of ore. I intend to remove the mean from this winze in the ensuing week to Kills shaft, as the water will be got under to the 19 fm. level.

DEDECAD UNITED.—At Wheel Mazungia, in the 108 fm. level.

to alin suars, as the water will be get under to the 18 ms, level.

BEDFORD UNITED.—At Wheal Marquis, in the 108 fm, level, east of Balley's wince, but little has been done since last report; the lode in this level west remains without alteration. There has been no leds taken down in the 90 fm, level east; it is intended to cut through the lode the latter part of this week. The lode in the 70 fm, level east is 2ff, wide, producing a little ora—a vary kindly lode. We weighed at Morwelham June ores, 118 tons, and sampled July ores, computed, No. 1, 71 tons, and No. 2, 53 tons.

BLISLAND CONSOLS.—We are still driving the cross-cut in the adit south with all force, night and day, and have driven 10 fms. 4 ft. this last month; the ground is now getting harder, and we have cut through several branches this last week, which makes me think we are near a lode. The men costeaning to hill have made no further discoveries as yet, but I am in hopes they will cut something shortly, as they have some good shode stones is their last pits. We have nine men on the leets, and we are getting on well with them, as also our wheel pit, which I hope will be ready for the masons in a few days.

are getting on well with them, as also our wheel pit, which I hope will be ready for the masons in a few days.

BRYN-AR-IAN.—The 10 fm. level is now extended 4 fms. east from the engine-shaft; the lode at present is from 7 to 8 ft. wife, but we have not seen the south wall of it for the last 2 fms.; the part which we are carrying for the level, about 5 ft. in width, will produce more than 1 ton of lead ore per fm., and is improving every foot we drive. The stope back of the same level, cast of the wire, 15 cwts. of ore per fm.; the stope back of the same level, cast of the wire, 15 cwts. of ore per fm.; the stope back of the same level, cast of the wire, 15 cwts. of ore per fm.; the stope in the side of the salt level, east from the shart, produces 10 cwts. of ore per fm.; the stope in the side of the salt level, east from the shart, produces 10 cwts. of ore per fm.; the stope in the side of the salt level, east from the shart, produces 10 cwts. of ore per fm. the damages done it at the time the capitan rore broke, by the means of the lift of pumps in its descent to the bottom knocking out all the timber which stood in its way. We progressing favourably in clearing the 45 fm. level asouth, and in driving the 36 fm. level in the same direction we find the lode has much lapproved since my last, whilst the 28 fm. level level also has not failed in giving its proportionable prospect of a better day; and I state, with much pleasure, the tribute pitches still yield their bountiful supply of lead and copper in augmented quantities, and look, likely to continue. At the lower mine, whilst it is in my power to report so favourably of the upper mine, from its various changes and alterations, I can see but little deviation in the salt end here from former reports; the ground is very good, and looks promising, but for riches we shall, it is probable, have to went until we get near the function of the upper mine lode.

CWM ERFIN.—The stope east of the engine-shaft, in the back of the

ground is very good, and soots promising, out for receives we stain, it is proused, nave to wait until we get near the janction of the upper mine lode.

CWM ERFIN.—The stope east of the engine-shaft, in the back of the 20 fm. level, is worth 84, her fm. The stopes from 10 to 20 fms. east of the engine-shaft are worth 124, per fm. The stopes from 20 to 30 fms. east of the engine-shaft are worth 194, per fm. The stopes from 20 to 30 fms. east of the engine-shaft are worth 194, per fm. The 20 fm. level east of the whim-shaft, sinking under the 19 fm. level, is worth, for the length (12 ft.), 154, per fm. Our machinery is working well, and our dressing proceeding very satisfactority.

DEVON AND COURTENAY.—The bodie in the winzs in the bottom of twich we are saving; the footwall is going down more presented in the part of which we are saving; the footwall is going down more presented in the back of this level the lote is 24 ft. wide—and the proceeding the same part of the same part

EAST BIRCH TORR (TIN).—Since my last report, we have driven a crosscut about 4 fms., and by so doing have cut the No. 5 lede to the east of the cross-course,
and have discovered a good branch of tin. Six measure now diving on the course of the
lode, and I calculate on getting alsed 10 fms. by the end of this menth. I am persuaded
we shall find this lode improve in length. I have also to inform you that the tributebacks are improved this week, and I find that all the workings in the mine are very
much increased in value since my last report.

we shall find this lode improve in length. I have also to mind in you this the driving-backs are improved this week, and I find that all the workings in the nine are very much increased in value since my last report.

EAST CROWNDALE.—The middle shaft, let to sink below the 17 fm. level, by nine men, limited 5 fms. in the mentils, at 81, per fm.; the lode in this shaft is not so good as last reported.—we believe the tin runs in floors; we calculate completing the shaft is the stopes in the bottom of the 17 fm. level, to stope by eight lines; we-shaft the month, at 90s, per fm. Our object in doing this is to search the bottom of the level, to accertain the quality of the lode and to relating entire the shaft in enough, fit possible, to cover the cost while sanking the shaft, and laying open ground at a deeper level. We intend common thinking the shaft, and laying open ground at a deeper level. We intend common thinking the shaft, and laying open ground at a deeper level. We intend common thinking the shaft, and laying open ground at a deeper level. We intend common thinking the shaft, and laying open ground at a deeper level. We intend common thinking the shaft in the engine to the middle shaft, and also about 24 tons of can't it is not to the shaft of pulley stands, &c., for the new flight of surface-rods from the engine to the middle shaft, and also about 24 tons of can't of surface.

EAST TAMAR CONSOLS.—The shaftmen have commenced cutting ground for tram-road, plat, &c., and will shortly recembe saking the shaft. The 30 im. level has been extended south 5 fms. 1 ft. 6 in.; the lode is 24 ft. wide, easy for driving, with a small branch of lead, and likely to improve, it is 3 ft. wide, of which 20 in. yield rich work. In the onth end the lode is 24 ft. wide, more kindly for some time past, and producing some saving work. In the 60 end, south, the lode is 3 ft. wide, wide, will seat a moderate tribute. In the 11 end, north of Charlotte's shaft, the lode is 4 ft. wide, very easy for driving, and producing rich sto

HAWKMOOR.—The lode in the engine-shaft remains the same as last re-orted—vis.: 3 ft. wide, and yielding 8 tons of ore, or 44t. per fm. We have not taken own the lode in the 20 fm. level east; in the 20 fm. level west the lode is much im-roved, being at least 2½ ft. wide, with a leader of ore, about 16 in. big, worth 18t. per thom—a very kindly end.

HEIGNSTON DOWN CONSOLS.—Bailey's engine-shaft progresses rather owly, the ground being harder and more difficult to penetrate. The lode in the 35 fm vol. east of the cross-cut, maintains fis most encouraging character, producing occaonal stones of grey copper ore, varying from 15 to 20 hs. weight and upwards. The fine west of Hitchins's shaft, is just commenced driving, the men being employed squaring the shaft, putting in penthouse-shaft, sollar, &c., preparatory to the driving

KIRKCUDBRIGHTSHIRE.—The lode in the 62 fm. level east is 3 ft, wide, yielding about 6 cwis. of lead ore per fm.; the lode in the west end (same level) is 2 ft. wide; there is a kindly spar coming in with spots of lead, and the lode seems to be opening. At Keith's shaft the lode has improved in size this week, but otherwise much the same, with a few spots of leaf through it. The lode in the 50 end has a softer flookan with it this week, and is beginning to make lead sagain; the 50 end cast has a lode 2 ft. wide, with branches of ore scattered through it. We have shipped off a cargo of lead in

MENDIP HILLS.—We continue to press forward with our different opera ions at Uley as fast as possible; the carpenters are at present bustly engaged in makin and fixing the stands for carrying the chains from the engine to the incline plane, as all the necessary wood work for the dressing department, such as pipes for conveying the water to different parts of the floors, gigging machines, buddles, &c. The beds of slag stuff in Charter-house Valley remain without any particular alteration, about 15 fee thick, intermised with some tolerable good slags and a quantity of slimes. We have good pile of slags prepared for the furnaces, which I expect will be smelted this week.

thick, intermixed with some tolerable good slags and a quantity of slawes. We have a good pile of slags prepared for the furances, which I expect will be smelted this week.

SOUTH TAMAR CONSOLS.—The shaft is sunk 2 fms. under the 101 fm. level, and the men are new busy in cutting plat, &c., and preparing to fix the plunger-lift. In the bottom of the shaft the lode is 2 ft. wide, carrying is leader of lead, 6 la. wide, and flikely to improve. The lode in the north end, in the 101 fm. level, is 2 feet wide, 1 ft. good saving work, and altogether is much improved during the last month; titere has been but little done in the south end in this level, the men having been ill. In the 90 fm. level south the lode is full 3 feet wide, over throughout, and leaving ground that will set at a low tribute. North of this level, the fram-road is completed to Giyn's shaft. In the 80 fm. level south the lode is 3 ft. wide, with a good branch of lead, very easy for driving, and leaving excellent fribute ground. In the 70 fm. level south the lode is 3 ft. wide, with a good branch of lead, very easy for driving, and leaving excellent fribute ground. In the 70 fm. level south the lode is 2 ft. wide, our productive as it was a week since. In the 30 fm. level south the lode has been taken down; it is 44 feet wide. On the footwall there is some good work; and the whole lode is good stamps work. The men are now placed to sink for co- manication to the 40 fm. level. The pitteles generally are looking very well, and the wine altogether much improved; but the queality of over raised will very little exceed last month's revierus, in consequence of so many of the mes having. South the second last month's revierus, in consequence of so many of the mes having.

been attacked with the prevailing disease.

SOUTH WALES MINES.—The Bodeali north lode, in the deep adit west, is 1 ft. wide, composed principally of gray slate, but poor for lead. The lode in the Dawin deep adit, east of Rhydnet river, is looking very promising, and is producing some good stones of copper ore and lead, but not sufficient to put a value on.

SOUTH WHEAL TRELAWNY.—The sugine-shaft is in course of sinking 2 fma. below the 40 fm. level, with nine men, in which the ground at present is sparry for blasting; also the strate of ground is civan and capels, mixed with mundle, and rich spots of copper ore. The water is just the same as usual, and everything is in a regular way of working.

a regular way of working.

TRELEIGH CONSOLS.—Garden's shaft, below the 113 fm. level, sinking in the country, and is down 10 fms. 4 ft. below the 113. In the 90, west of ditto, the is 2 ft. wide, with stones of ore, and looking very kindly. In the 90, west of ditto, the lode is 18 in. wide, and worth 4t. per fm., in the 80, east of the cross-cat, lode 29 in. wide, and worth 4t. per fm., in the wine below the 90, the lode is 90 in. wide, with stones of ore. In the 40, west of Garden's, the lode is 2 ft. wide, with stones of ore. At Wheal

Farent the targine-shaft, below the 30 fm. level, sinking in the country, and is down 3 fm. below the 30. In the 30, cast of ditte, the lade is 5:ft. wide, and worth 9:ft. per fm. In the rise above the 30; the lode is 3 fm. wide, and worth 9:ft. per fm. In the 8:0, west of ditto, the lode is 18 ln. wide, and worth 9:ft. per fm. The 90, west of ditto, is suspended for the present, and the man put to sink the under-mentioned winese:—The wisse below the 20; lede 3:ft. wide—this winze is to sink on the rise, in the back of the 30; the winn-shaft, below the 12; lode 18 in. wide—poor; Nicholean's shaft, below the adit, lode 1 ft. wide, with stones of ere—the men have been employed enlarging the winze, in order to bring down the winn kibble; the adit, east of ditto, lode 1 ft. wide, at present poor.

TRELYON CONSOLS.—The lode now worked upon in Wheal Venture part of these mines is much improved, being worth 3:ft to 30; per fm. in the 22 fm. level west, and the end is being driven at 8:f. per fm.

and the end is being driven at st. per m. The shart produces sufficient tin and copper to pay for sinking.

WEST WHEAL JEWEL.—In the 57 fm. level, west of Williams's cross-course, on Wheal Jewel lode, the lode is unpreductive—drove last month 2 fms. 2 ft.; this end is suspended, and four of these men are put to drive the 85 fm. level; west of Williams's cross-course, on the same lode, swe suspect, in the course of two or three months, to gair under the ore ground that we had in the 70 fm. level and the levels above. In the 47 fm. level, sweet of Williams's cross-course, on the same lode, the lode is unproductive—drove last month 1 fm. 5 ft. of in.; four of these men are put to drive the 12 fm. level—aunk last month 2 fms. 3 ft. 6 in.; four of these men are put to drive the 12 fm. level—aunk last month 1 fm. 5 ft. 6 in.; four of these men are put to drive the 10 fm. level—aunk last month 1 fm. 1 ft. 6 in. The rise against Tregoning's shaft, in the back of the 12 fm. level, rose last month 1 fm. 1 ft. 6 in. In the 57 cross-cut, north from Buckingham's lode, drove last month 5 fms. 2 ft. The stopes in the back of the 12 fm. level, rose last month 1 fm. In the stopes cast of Pryor's winze, on Tolcarne in lode, are worth 94, per fm. In the stopes in the bottom of the 12 fm. level, east of Tregoning's winze, the lode is worth 16 ft. per fm. In the stopes in the bottom of the 12 fm. level, east of Tregoning's winze, the lode is worth 16 ft. per fm. In the stopes are working on tribute.

WHEAL ANDERTON.—The 80 fm. level west is very much improved, lode

lode is worth 10t, per fm. In the stopes in the bottom of the 12 fm, level, weat of Tregoning's winze, the lode is worth 16t, per fm. In the stopes in the bottom of this level, seat of Tregoning's shaft, the lode is worth 18t, per fm. The stopes are working on tribute. WHEAL ANDERTON.—The 80 fm, level west is very much improved, lode large, and carrying a leader on the north wall 15 in. wide, producing work of 2000 lbs, of tin for every 100 sacks, 12 gallons each; this is very material, being almost the westermost part of the sime already developed. There are three lodes south of the lode, operating on to the east of the engine-shaft underlaying north (the other south), consequently a junction will be formed within 20 fms. from the east point in the 80, which I propose cross-cutting immediately, having opened on each lode respectively at surface east of the cross-course, very correspondent to the plan I presented some time ago.

WHEAL BENNY.—We have sunk the winze about 6 ft., and intend going 8 fms. deeper before we intersect the lode—set 4 fms., or the month, at 3t, per fm.

WHEAL LAWRENCE.—The lode in the adit and looks as kindly as a lode can, without a course of ore. We have driven south 33 fms., 2 fms. east, and 2 fms. west, and in cross-cutting west we have a large stream of water coming from the end, which shows that there is more lode still to the west. We have been timbering all the week, and, having got all right, I shall prescente the adit south as fast as possible. The shaft is sank from surface 13 fms., the ground very favourable, and producing stones with copper and lead, with a great quantity of mundic, &c.

WHEAL MARY ANN.—Pollard's shaft is sunk 13 ft. under the 65 fm. level; the ground is still hard; the lede in the 40 fm. level, courth of the shaft is 34 fter wide, and worth 4t, per fm, is the same level south it is 2 ft. wide, and worth 5t, per fm, is the same level south it is 2 ft. wide, and worth 5t, per fm, is the same level south of the boundary, is 2 feet wide, and worth 5t, per fm, i

of the tribute department are much the same as my late reports have notified.

WHEAL TREHANE.—The lode in the 68 fathom level south is 2 ft. wide, composed of capel, spar, can, and some good lead; a greater improvement was anticipated in this end, but we have had rather hard ground, which has impeded our progress, it is now, however, easier, and the lode is still improving; in the north end in this level the lode sill continues as last reported, worth, on an average, it is now, house lode still continues as last reported, worth, on an average, it is no per fm. The lode in the stopes in the back of the 55 fm. level is worth about it ton of lead per fm. The lode in the back of the 45 fm. level is glading from 7 to 8 ewis per fm. In the cross-cut in the 30 fm. level was we have been opening on two of the most promising branches lately intersected, but finding nothing worthy of further prosecution, we reasume the driving of the cross-cut as be fore.

where the back of this level, both or that shaft, is 2 ft. wide, and worth \$4\$, per fm.; in this level; both or the \$2\$, north of Phillips's shaft, is 5 ft. wide, and worth \$4\$, per fm.; in this level; both in the level is 5 ft. wide, and worth \$4\$, per fm.; in this level; both or the level is 5 ft. wide, and worth \$4\$, per fm.; in this level are still unmally reduced to the shaft, is \$4\$ ft. wide, and worth \$4\$, per fm.; in this level are still unmally reduced to the shaft, in \$4\$ ft. wide, and worth \$4\$, per fm.; the stopes in the back of this level, both north and south, are usually productive. At Trelawny's shaft, the lode in the 72 north is 4 ft. wide, and worth \$4\$, per fm.; the stopes in the back of this level, both north and south, are usually productive. At Trelawny's shaft, the lode in the 72 north is 4 ft. wide, and worth \$4\$, per fm. the back of this level, both north and south, are usually the shaft is a ft. wide, and worth \$4\$, per failton; the stopes in the back of this level, both north and south, are much the same aslat reported. At the north mine, the lode in the 55, north of Trelame, is 2\frac{1}{2} ft. wide, and worth \$4\$, per failton, the stopes in the back of this level, both north and south, and where the lode is 2 ft. wide, and worth \$7\$, per fm.; the lode in the 40 fm. level, north of this shaft, is about 1 ft. wide—poor at present. We expect we are near the cross-course, and, therefore, calculate on an improvement shortly; the stopes in the back of this level, both north and south, are just the same as last reported. Trelawny's shaft is sunk 2 tos. 5 feet under the 73 m. level.

WHEAL VINCENT.—There is no material alteration on any part of the

Seet under the 73 m. level.

WHEAL VINCENT.—There is no material alteration on any part of the south lode since last reported, as we have been desuing by the side of it. We have cut into it in different places, as we have driven on, and find it egind to hast report; however, we shall commence taking it down to-morrow. The north is still producing moderate work, just as last reported, which we are taking to the new stamps.

FOREIGN MINES.

ALTEN MINES .- The following is the estimated produce for July :-

Mines. Raipas	Tons of Ore.	Per Cent. Fin	e Copper.
Raipas	70	6	4-20
Old Mine	80	8	4:00
United Mines			
Michell's	22	61	. 1.43
Mancur's			
Carl Johan's			
New Lodes	B		. 0:45
Ryper's	8	4	. 0.20
Powder-house	1	4	. 0.04
Cole's	4	3	. 0.13
P. A. M. C. D. W. Str. Date on Con-	The same of the sa		-
Total	226		12-69

Mining Report from the 24th July to the 15th August.

Munny tisport from the 24th July to the 15th August,
United Mines.—The operations at Ward's Mine are still confined to tribute, and no
further improvement can be noted. At Woodfall's, some gossan ore of a superior quality
is produced from the back of the north lode, where it has been opened to the surface, and
the tributers make fair returns from the old attle burrows.

Old Mine.—The whole of the workings at this mine have very encouraging prespects;
whilst the workings continue to make satisfactory progress, and yield the usual good returns. The lode in the sink under the adit continues havourable.

Ryper's.—No farther improvement is observable; the ground is hard, and the progress made in exploring the lode is consequently slow; whilst the returns of ore have
not increased.

grees made in exploring the lode is consequently slow; whilst the returns of ore have not increased.

Moncur's.—Nearly all the usual mining operations are now suspended, and the men are more advantageously employed at other places.

Michel's.—The prospects have latterly improved, and some fair returns of a good quality have been made.

Gert Johan's.—The lode in the sink is still regular, and from 3 to 4 ft. wide, with a kindly appearance, but containing rather less ore than formerly; on the whole, however, the prospects are still flattering. Some small parcels of ore have also been delivered from the other mines, and, with the next post, I hope the returns will failly bear out the present in-proved estimate.

Redgess, singues ib.—The winds of our bargains at the mine are beginning to wear a somewhat more favourable aspect, and our produce for the last month would certainly have corroborated this assertion; but, unfortunately, the heavy rains that have been continually failing for the paic eight or nine days, have again inundated the whole of our bottom workings, and prevented us for the present from realising that quantity of ore which it hitherto anticipated we should be able to accomplish, and which lathe sole cause why our produce has not been greater. I expect, inoverer, the should the weather change for the loster, we shall be able to resume the whole of our workings in the 90, which are at present ander water, by the end of next week. In the meanting, the bat work uses are being employed at the surface, as well as in other parts of the mine on tribute; so that our produce from the tribute system, which our people are now beginning to mader stand, will be double the quantity of last month. Should anything new d, will be de ning to understand, will be double the quantity of last month. Should anything take place at the mine before the departure of the steamer, you may fully rely tearning from me.—S. Moss.

COPIAPO MINES .- The following is the mine report for May :-

COPIAPO MINES.—The following is the mine report for May:—
Copiapo, Juse 30.—Cusco Coprex Mine.—I have pleasure in communicating to you the gradual improvement in the general aspect of this mine. In the 20 fm. level, cast of Harman's shaft, we have a beautiful iode of rich ore, 2 ft. wide, that will yield 35 per cent. of copper. In the 40 fm. level, cast of this shaft, we have also a good look, about. If it, wide, of excellent cre, which promises fair to improve as we advance. In a winte sinking below the 30 fm. level we have a good branch of ore, 10 in. wide, and are now diving a level at the 30, to communicate to the said winze, when we hope to lay open some very productive ground for stopes. The stopes to the west of the new shaft, in the bottom of the 12 fm. level, are still producing some good ore, but not quite as rich as whon last reperied on. I intend, before removing the men from this part, to stope the growald at the back of the 20 fm. level, to the cast of Harman's shaft, where they will be able to laval some very rich one.

Sas Purso Coppes Mins.—I have nothing new to report respecting this mine.—In the 10 fm. level we have had a branch of good ore in the last month, but the ground has become had, and the verial small, andly 4 in. wide; should a favorable change not pressnitised shortly. I shall suspend it for the present. From the stopes in the back of this level we are, however, still getting out some good ore, although the lode is small, about 5 in. wide. The stopes in the back of the 5 fm. level have yielded some good ore in the last month, and will still continue to aid our produce a little for a meath or two to come.

New Goppes Mins.—I have in the last month denounced a new copper mine in the mineral of Troe Funtas, and which has been ceded to the company. This is certainly

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The Best new mines I have seen at the surface; we have two large lockes running through the soft; about the centre of the soft, on the last-named lods, we have a course of ore for about 6 ms. in length, and more than 5 ft. wide, that will produce from 36 to 40 per cest, of copper, with some for feels and water for the use of the mine, more convenient than in aimose say other part of this extensive mining district. As soon as I can dispose of troops to carry like necessary materials, provisions, &a., to the mine, it shall set a few miners to work, and an emident I shall have great pleasure in reporting to you the result. Produce for May—Checo, 40 tons; Saif Fedre, 19 tons; total, 59 tons. Strays Mirgs. All Five Hallads.—In this mine we have broken down the lode in the different levels and wissres, which did not turn out so rich as was expected—say, about 15 tons of ore, of 150 marcs per cajos; but the last 2 ft. of wish broken in the despect part of the sinise was very rich, and more than I ft. wide. In the two 10 fathous levels, and producing ore of 190 marcs and upwards per cajon. Our next breaking out will, 1 believe, be double in quantity and quality what the present is likely to yield.

San Jose del Carmes.—We have also broken out all the lode that was desued in this mine, which has produced about 6 tons of first-class ore, and 15 tons of second-class ore. This first is now being amalgamated, and, I think, will yield about 500 marcs per cajon in the second-class we cannot carry as yet for want of troops, all our mule bree being employed at present bring ing down copper or to load a ship daily expected. In this nime we have three labores in good benafich—one level and two wintes, this loads in each not less than 3 ft. wide, and nearly all ore of fair quality.

Carmen Alto and Plomita.—We have, in the last month, found some very pretty stones of ore in the miner.

How the provide of the result is regular good beneficed.—The share in this mine.

Loveto.—In the stopes sinking in this mine, on the lode, we have

amalgamation establishment in a few days. The ore we expect will yield about 2 lbs. of gold per cajon.

IMPERIAL BRAZILIAN MINES—Bananal, June 18.—At length I have once more the agreeable duly of acquainting you with a considerable improvement having taken place in this mine aince my respects of the 13th inst. You are sware that as we have followed the Big Pump vein downward it has generally shown specks of gold, and occasionally it has afforded us "hat caps," and even boxes of work for the washing house. It has at length become much richer, and en the 14th and 15th inst., yielded so much, as to give us 25g bs. of the precious metal. The auriferous portion of the vein as about 1 ft. in length, and that part of it whence the mentioned produce was obtained is about 6 or 7 ft. in height. In order to extract this, we have dug the vein as far as we can conveniently reach; and, before we can do much more, a couple of days must be devoted to securing the ground with funber, and taking away the rock on either side of the vein, so as to give us more room for working on it again. As the discovery is so recent, I can add but little to the foregoing statement, except that, as in the veins horstontains in sight so far downward as we have yet extended. The rich spot is about 2 fms. above the 14 fm. level, which we are now extending from Thomas's shaft with the utmost speed. At the Magalhaes Pit we continue to take out a little work, and the vein has a promising appearance. The matrix of this bunch of gold, as well as of the vein at the Magalhaes, is schort, a mineral which we have never before seen accompanying gold, either here or at Gongo. This discovery, whatever it may be, is the more interesting to me personally, because (notwithstanding it would have been eventually worked sooner or later, yet, having given but slight samples, it had been temporarily passed by) I my-self directed the vein to be explored in that direction, and, because I was present at the time when success attended our first five minutes' work.

P.S.—T

letter. Gold Report.							
Gongo-from 5th to 22d June	5	. 5	0				
Bananal-from 5th to 14th ditto 5	7	18	0				
Ditto-from 15th to 22d ditto43	9	14	0- 58	10	17	0	
			-	-	-	_	
Total from 1st January-viz., GongoLbs. 85	11	18	0				
Bananai139	6	15	0-225	6	13	0	

25th		Mks.	1	6	5	43			
26th	************		2	1	6	0			
2711	***********		3	4	4	3			
28th	** ** ** ** ** ** ** **		2	0	7	469	5	7	20

It is, however, our duty to state that the stamps have not been more than two-thirds supplied during that period, or the returns would doubtless have proved still more cheer-ing; the intersection of the last veh in driving the eastern end has greatly improved our prospects, as it is stronger than any we have yet seen, and only requires to be extensively

												teiligenc	٠.		
-Cocaes,	from	24th	May to	3d Ju	ne		M	ks.	4	0	4	47			
	**	4th	to 13th	June					6	2	7	70			1
	- 67		to 23d												
	-	25th	to 28th	ditto	(4 da	ys)			9	5	7	20-33	3	1	49
Cuiaba	. Grom	26th	May to	6th J	une				1	4	3	4			
		6th	to 16th	ditto					3	0	0	21			
		16th	to 26th	ditto					2	0	0	43-6	4	3	68

Total Mks. 39 7 5 45

Stamps working 36 days, average 96 5-10 heads. The supply of stone continues to sequile as good as could be expected.

This Girean Copper was made, near Girvan, about 20 years ago, and which was explored by a party of working men in the neighbourhood, who after taking out some of the ore at a very shallew depth, abandoned it through the falling together of the ground. The landowners having lately held out to some inducements, a party have taken the works in hand; and having cleared out the old abard, discovered a 6 fm. level, and by driving east and west on the course of the lode, it has given indications that at a depth of probably 10 fms. more, great riches will be obtained. Capt. Rewe, of the Laxey Mines, late or Man, has inspected the mine, and reported on it, and states that the lode originally had been very imperted yoxplored, but, through the recent workings, a regularly defined lode of grey copper ore was laid open, of a quality and extent sufficient to hold out the most encouraging expostations in depth. The lote is large, from 4 to 6 ft. wide, in a most congenial strata, and aboundary with rich sulphuret of copper throughout. A little more depth he believes alone necessary to develope a matured deposit of ore, and that the mine will had down in copper, of a more condensed character and value, and he is led to this conclusion from the regularity and size of the lode, to strata it lies in the course of the working of these mines, not responsibility to be involved beyond five more than a small cross-course in the sufficient to hold out the most encouraging expostations in depth. The lode is large, from 4 to 6 ft. wide, in a most congenial strata, and abounding with rich sulphuret of copper throughout. A little more depth he believes alone necessary to develope a matured deposit of ore, and that the mine will hold down in copper, of a more condensed character and value, and he is led to this conclusion from the regularity and size of the lode, the strata it lies in the long of these mines, no responsibili

THE ASTURIAN MINING COMPANY.

THE ASTURIAN MINING COMPANY.

Sin,—The abstrebolders in this company were told by their directors, at the last general meeting, that they had great cause for rejoicing at the prospect of a speedy conclusion of the negociations now pending in Paris. By the arrangament, which they were told was nearly completed, the shareholders (who have paid 15t, per share) are, for a fittle more than the amount of two calls of 1t, to relinquish to Mears. Rianzares and Co. two-fifths of the profits made by the company, and even then it is doubtful whether they will not be liable to further calls after this money is expended. Can there be any more complete preof of the imbedility of the directors, who have hitherte told us that it was only want of confidence when depreciated the value of the mining property, the whole body of shareholders might have been taken to the Asturias for 1000t, and they would have satisfied themselves of the real value of the mines.

That would have been better than such a sacrifice as is now contemplated. But it was not the value of the property which was really doubtful, but the capability of the directors of the company to exploiter it. The directors throw the blame of their failure now on the manager in Spain—now on the Spanish Government; but I more than suspect that their first and most abused manager was the most capable of any that has been sent to the country, and there is, doubtles, much more truth in the allegations made by the Spanish Government in the decree of the 26th of June, than the directors wish us to believe. The Spanish shareholders would not have petitioned their Government odissolve the company, if they had not seen that, after six years of existence, the company was only leas likely than ever to benefit either themselves or the company was only teals likely than ever to benefit either themselves or the company was only teals invalved the company to the suppose.

In be a second of the company are satisfied with having encouraged others in the ridiculous project of a railway from

MINING IN DARTMOOR.

MINING IN DARTMOOR.

Str.,—As mining in this district has of late much attracted the attention of capitalists, I would bring under notice the improvements discovered in the Old Vitifer or Birch Tor Tin Mine, which have before been described in your Journal. I am always much gratified to hear of mines looking well in this district, believing that if only one quarter of the money that has been thrown away in foreign adventure had been spent in developing the mineral riches of Dartmoor, much increased advantages would have resulted both to adventurer and miner. East Birch Tor Tin Mine adjoins the Old Vitifer set to the east, and any one acquainted with mining will, on paying the mine a visit, feel convinced, from the indications and rocks of tin at surface, that large deposits of mineral are to be found in depth. This will shortly be proved, as I hear 50 men are to be set to work on the mine in about two months. Devon Great Tincroft Mine lies to the east of the latter; here, last week, a lode was cut 3 feet wide in the adit level, producing good tinatuff, while the back of the level is only 7 mms. from surface; there is, however, a fine hill in advance, by driving 50 fins. into which will give 140 ft. of backs, and a cross-cut from the adit will intersect eight other lodes, which have produced tin near the surface. This is proved by the stuff thrown up by the ancients, as it is easy to find good stones of tin still in it. The lodes are visible traversing the whole length of the sett, 13 mile on their course in a beautiful decomposed granite, highly favourable tor the production of tin. This ground is so kindly, that 80 fms. have been driven at 25s. per fm, at which price the men made good wages. Much more could be said in favour of this sett, but any persons feeling interested are invited to see and judge for themselves.—J Perrose: Chaeford, Decom, Sept. 6.

HOLMBUSH MINING COMPANY.

HOLMBUSH MINING COMPANY.

At a special meeting of adventurers, held at the offices, George-yard, Lombard-stroet, on Wednesday last, the 5th inst.—Mr. T. Hackeyr in the chair—it was resolved, that the report of Capt. Lean be received, and its recommendations adopted, and that in consequence of the erection of an 80 in. cylinder, engine, a steam-engine of 50-in. cylinder, with pitwork and appendages, should be disposed of. The following report, from the directors, was read:—

In consequence of the temporary failure of the Flap-jack lode, and the other parts of the mine not having proved so favourable as the report at the last meeting led them to expect, the directors have thought it right to call a meeting of the shareholders to consult with them upon the present state of their affairs, and to accertain from them how far they are disposed to co-operate with the directors in carrying on the work now recommended by their agent, who is now in attendance to give answers to any questions that may be submitted to him. He has furnished them with a report which will be read, and by which it will be seen that, in 10 to 12 months, the Flap-jack lode will be interested 20 fms. deepar than at present—being now in the 100 fm. level; during which time, according to the best calculation that can be made, the loss on the mine will be 1000. to 1200, per month; but to the event of the Flap-jack lode again proving productive in the 100 fm. level, which may reasonably be expected, or the load lode, which is said to be more promising than it has been, producing a few more tons per month, in either case the loas would be proportionably decreased. The directors are willing, on the recommendation of Capt. Lean, and with the consent of the shareholders, to go to this extent, as they know about what would be their additional loss, if nanacessful; and if the Flap-jack lode should again prove only as good as it was for 8 or 9 fm., they would be enabled to carry out this work without loss. The dues are taken off by the Duchy; and the agent i

tram-roads, Sec.; it is again get to drive by six mem, at M. per fam, and it will stand without being timbered—stant for one workin, commencing labour one clock on Monday without being timbered—stant for one workin, commencing labour one clock on Monday and the standard of the clock of the clock of the clock of the labour of the timber of the sinks. He was the labour of the timber of the sinks of the labour of the labo

COOMBE VALLEY MINING COMPANY.

WHEAL CALSTOCK MINING COMPANY.

EXMOOR WHEAL ELIZA MINING COMPANY.

eting of shareholders, held at the mine, on Monday, the 3d instant ng report, from Capt. Whitford, was read:—

the following report, from Capt. Whitford, was read:

Sept. 3.—In presenting before you the present position of the operations and prospects immediately associated with this mine, I am unavoidably driven to cull some of my former reports. Since your last meeting, an important alteration has been effected in the machinery. The cross-cut in the 24 m. level has been driven north about 7 fms, together with 2 fms. 3 ft., which were driven previoually—making the whole length of the rose-cut from the engine-shaft to the north lode 9 fms. 3 ft.; at a little south of the lode some branches of gossan and sulphuret of copper, of a high per centage, were inscreeded and passed through, which will fall in with the lode in driving east; at the loant of intersection, the north lode is about 4 ft. wide—the principal part of which is madic, with oxides of copper; considering its character, and the surrounding stratum a which it is located, nothing can be more laviting, although not at present rich. Serval fathoms have also been driven on the cannter lode, which, at the present depth, is still a mass of gossan, impregnated with copp r; we have likewise driven south about fathoms towards the south lode, which are second copper in the level above, and which is highly probable will be cut before the next meeting, and I hope and elleve, with a little more ontlay, you will be amply remunerated.

WHEAL BENNY MIME.

At a general meeting of adventurers, held at the offices, King-street, Cheapside, on the 6th inst.—Richard Thornvon Brown, Esq., in the chair—the
circular of the purser convening the meeting, and his authority to the secretary
to act for him, and on his behalf, having been read, the balance-sheet was presented and passed, subject to usual audit. The following is an abstract:—Calls,
39101. 13s.; liabilities, including July cost, 1331. 3s. 3d.—40431. 16s. 3d.—Cost
at the mine to the end of July, and in London to the end of Aug., 39781. 6s. 3d.;
assets, 651. 10s.—40431. 16s. 3d.

Letters of a wave necuracying character, as to the probability of shortly ob-

sets, 656. 10s.—40432. 16s. 3d.

Letters of a very encouraging character, as to the probability of shortly oblining ore from the Benny lode, were read. There being 74½ shares, out of 66 into which the mine is divided, forfeited for the non-payment of calls, it as resolved that the said shares be offered to the remaining adventurers, protac, subject to the payment of all future calls.

Thanks were voted to the chairman for his attention to the interests of the ine, and the meeting separated.

Chaddock Moon.—At a meeting of adventurers, held at Liskeard, on the 30th August, the accounts were examined and passed, showing—Labour cost May and June, 441. 10s. 7d.; merchants' bills, 161. 4s. 3d.—601. 14s. 10d.—By balance last account, 361. 13s. 3d.—beaving balance against adventurers, of 241 is. 7d.—A call of 10s. per share was made, and the following report was read:—"Agreeable to the decision of the last meeting, I put the men to sink a new shaft from surface on the cross-course, which we find to be near 7 ft. wide, with two good walls about vertical. The shaft is now between 7 and 8 fms. deep, and about 3 fms. under the adit level. The north end of the shaft is about 3 ft. from Vivian's lode, and the south end about 5 fms. from Dunstan's lode, which I expect will be in the shaft when we are 10 fms. under the adit. We have met with several small veins in sinking, each of them impregnated with ore—their underlay is towards Vivian's lode. The price for sinking at present is 7t. 10s. per fm."

East WHALR Roses.—At a meeting of adventurers, held on the 31st Aug.,

sinking at present is 71. 10s. per fm."

EAST WHEAL ROSE.—At a meeting of adventurers, held on the 31st Aug., the accounts were examined and passed, showing—Balance from last account, 27171. 4s. 5d.; lead ore sold May 11, 22811. 10s. 4d.; ditto May 18 (Oxnams) 2831. 0s. 1d.; ditto May 28, 23201. 18s. 5d.; ditto June 8, 19101. 18s.; ditto June 12 (Oxnams and North Wheal Rose), 7261. 19s. 11d.; ditto June 15, 23771. 12s. 10d.; Cargoll adventurers for supplies, 1771. 7s. 8d.; ditto June 5, 23711. 12s. 10d.; Cargoll adventurers for supplies, 1771. 7s. 8d.; ditto three-quarters profit May and June, 2131. 4s. 2d.; ore raised in June, sold in July, 7001.—137,7084. 15s. 10d.—By labour cost for May, 21971. 15s.; ditto June, 28941. 18s.; merchants' bills, 16511. 0s. 6d.; income tax, 1001.; lord's dues, 6451. 3s. 6d.; surgeon and club, 621. 19s.; J. T. Treffry, Esq., on account of railway carriage, 1001.—By dividend 301. per share, 38401.—leaving balance now in hand, 27101. 19s. 4d.

now in hand, 27161 19s. 4d.

Gonamena.—At a meeting of adventurers, held at Liskeard, on the 30th August, the accounts were examined and passed, showing.—Balance last account, 41. 4s. 3d.; call, 128.—169. 4s. 3d.—By labour cost May and June, 761. 18s. 2d.; merchantz' bills, 161. 12s. 1d.—leaving balance in favour of adventurers of 751. 19s. The following report was read:—"Taylor's lode, in the 17 fm. level east, is small and poor. The 38 east is poor also; but the western end in this level is improved; the lode in the present end is 6 in. wide, with good atones of ore. At Oliphris, in the 60, the lode in the present end produces 2 tons of ore per fm.; we have driven this level about 7 fms. in ore, the produce of which is upwards of 20 tons, which we have now ready for sampling, with 15 tons now at Looe from the north lode, making altogether about 40 tons, worth 71. per ton. We hope shortly to be able to commence the 80 cross-cut north from West Caradon, to intersect Gilpin's lode in that level, which may take four months, and by that time we expect to have driven the 60 cast far enough to commence a rise in the back, to hole to the 50. We also propose to sink a winze at the same time in the bottom of the 60, to be down a great part of the way, to give air against the 80 cross-cut reaches the lode."

PAR CONSOLS.—At a meeting of adventurers held at Foway, Console Mine.

PAR CONSOLS.—At a meeting of adventurers held at Fowey Cansals Minon Tursus 18 st., use 20 un ms., use accounts were examined and passed, showing.—Tin sold, 26681. 16s. 7d.; copper ore ditto, 15,4291. 16s. 7d.; sundries 181. 15s. 11d.—18,1171. 9s. 1d. By cost for four months, to the end of June 11,1571. 6s. 1d., leaving profit of 62601. 3s., to which add balance last account 44431. 10s. 5d.—10,7031. 13s. 5d., from which deduct dividend declared at the meeting, of 501. per share, 64001, will leave a balance in hand of 43031. 13s. 5d. SOUTH WHEAL FRANCES.—At a meeting of advantages balance had the state of the

SOUTH WHEAL FRANCES.—At a meeting of adventurers, held on the 8d inst., the accounts were examined and passed, showing—Ore sold in May, 14394. 19a. 11d.; ditto July, 18861. 13a.; tin sold, 123£ 6a.=3449£ 18a. 11d.—By labour cost June, 725£ 15a.; ditto July, 577£ 10a. 5d.; merchants' bills, 593£ 6a.; lord's dues, 229£ 19a. 10d.; property tax, 72£ 18a. 4d.—leaving a profit of 1250£ 9a. 4d.: to which add balance last account, 646£ 14s. 9d.—1897£ 4a. 1d.: from which deduct dividend of 10£ per share, 1240£—leaves balance in hand, 657£ 4s. 1d.

West Canadow A. a meeting of advanturers held at Listeard on the

balance in hand, 657l. 4s. 1d.

WEST CARADON.—At a meeting of adventurers, held at Liskeard, on the 30th August, the accounts were examined and passed, showing—Ores sold in June and July (less lord's dues, 323l. 1ls. 9d.), 4908l. 8s. 1ld.; materials sold and quay dues at Looe, 21l. 3s. 1d... 4924l. 12s. 7d.—By labour cost, May and June, 3490l. 3s. 1d.; merchants' bills, 991l. 1ls. 3d.; sundries, 15l. 10s. 5d.; interest and commission, six months, 104l. 1ls. 6d.; property tax, 30l. 2s. 10d.—leaving balance, being profit, 292l. 13s. 6d.; to which add balance last account, 1768l. 18s. 4d.—2061l. 1ls. 10d.; from which deduct July dividend, 640l, leaves balance in hand, 1421l. 1ls. 10d.; from which a dividend of 50s. per share was declared.

WHEAL MARY CONSOLS.—At a meeting of adventurers held at Liskeard, on the 31st August, the accounts were examined and passed, showing—Balance from last account, 74. 10s. 6d.; labour cost. March and April, 945. 17s. 4d.; merchants' bills, 2321. 7s. 4d.; sundries, 121. 5s. 6d.; labour cost, May and June, 7921. 4s. 7d.; merchants' bills, 1591. 15s. 4d.; sundries, 4f. 6s. 1d.; interest, 551. 6s. 4d.—2761. 7s.—By tin and tin ores, sold May and June (less lords' dues, 381. 18s. 3d.), 6731. 10s. 5d.; ditto July, and 1601. worth ready dressed (less lords' dues, 321. 4s. 1d.), 6651. 5s. 2d.; leaving a balance, being loss, of 9372. 11s. 5d.—It was resolved, that the mines and materials be advertised for sale by private contract; and that Messrs. Allen, &ox, Gilpin, Elliott, Abbott, and the purser, be a committee to act for the adventurers; and, if unsuccessful in disposing of them, they are authorised to sell the materials by auction or private sale. In case a company be formed to rework any part of the sett, a meeting to be called to authorise the sale of the mines.

MINING NOTABILIA

[EXTRACTS FROM OUR CORRESPONDENCE.]

HENNOCK SILVER-LEAD.—The operations at this mine were resumed about six weeks since. On the 28th August every share was appropriated, and there is every reason to believe that most gratifying discoveries will almost imme-diately be made.

WHEAL EMMA.—The 40-inch engine has been started at nearly the eastern boundary of the Devon Great Consols sett. It went off remarkably well in all its motions, and does Mr. W. Matthews, their engineer, great credit for the very efficient manner it has been erected.

ACCIDENTS.

 An explosion of fire-dee of them very badly. ace, when, unfortunately, six

present.—Cambrian.

South Rosker.—Last Saturday, the whim-engine boiler at this mine burst with tremendous explosion, blew up and entirely destroyed the engine-house, tore up the solid
pavement for 20 feet, and was stopped in its career by a pile of ore. A piece, weighing
15 cwts, was carried 60 yards in another direction. Fortunately, no lives were lost; but
the engine-man had his thigh fractured by a stone thrown 100 yards from its place under
the boiler.

k.—J. Jenkins was killed in Parson's pit, belonging to the British Iron Com-iling against the rock whilst losening the ironstone.

pany, by falling against the rock whilst losening the ironstone.

Traistock.— An accident, extraordinay in its results, occurred on Witchurch Down, near Taristock, on Saturday last. A key in the service of the Rev. R. Siecman, was leading two horses, when one of them, a valuable mare, fell down an old mine shaft, 72 feet deep. Assistance was soon obtained, when it was discovered that the mare was allive; but, on letting down a lighted candle, it immediately went out, which deterred any of the men form going down. At length, a courageous miner, names Finn, came up, and offered his services, justly saying if the mare could live in such an atmosphere he could. He was accordingly let down, and having fastened a rope round her body and fore legs, she was soon drawn to surface by about 50 men who had congregated, when, to use their language, she "cried like a child," in teatifying her gratitude. The most singular result is, that the animal had not received the alightest injury, not even a scratch.

MINING INDUSTRY OF AUSTRIA.

The Austrian Government has lately published a return of the mineral produce of the Enns, Salzburg, Illyria, Galicia, and Buckovina during the yea 1848, and of Banat and Croatia in 1847. The mountain productions of Salzburg amounted in the past year to 22,7841, and consisted of 478 oza. of gold 1650 oza. of silver, 1265 cwta. of copper, 639 cwta. of vitriol, 32,785 cwts. or rough iron, 2326 cwts. of copper, 639 cwta. of vitriol, 32,785 cwts. or rough iron, 2326 cwts. of silver, 1030 cwts. of grain 500 cwts. of cobalt ore, and 361,166 cwts. of coal. Along the Erns the minera produce amounted in 1848 to 34,0504, consisting of 1,117,195 cwts. of coal ampelite, 720 cwts. of silm, 415 cwts. of graphite, 23,674 cwts. of raw iron, and 1950 cwts. of ghisa. The mountain produce of Illyria, comprising Carinthia Cragno, and the coast, amounted to the value of 281,5594, and consisted of

Gold Marks 6		£ 214
Silver 15	*******	31
Calamine and sine ore Cuts. 9,983	********	943
Quicksilver 2,884	********	53,814
Lead		
Cheese		
Ghisa 22,843		
Ampelita839,136		
Antimony 175	********	

	********	10

	********	200
Vitriol 320	*******	20

and consist of—			D. Acardi
Raw iron Cwis.	64,904		£17,058
Ghisa	22,964		10,974
Coal			
Silver Marks	468		
Copper Crota.	1,861	*********	7,448
Lead	137		
Litharge		********	
Raw Sulphur			
Purified ditto	6,382		2,625

COMPANY OF COPPER MINERS IN ENGLAND.—We understand that the labours of the committee, of which Mr. Gilbertson is the chairman, are progressing satisfactorily, and that they will shortly be able to lay before the shareholders, and all parties concerned, a definite plan for the resuscitation of the company. At present great difficulty exists in reconciling the interests of the debenture and shareholders; this has not been anticipated, as in most cases the largest debenture-holders are heavily concerned as shareholders, and consequently supposed to have indentical interests. A deputation from some Liverpool shareholders waited on the Court of Assistants, a few days since, the result of which has not yet transpired.

OURNAMEN MINES.—The produce of the mines, according to the last report.

RESULT OF WRICH HAS NOT YET TRANSPIRED.

QUENANGEN MINES.—The produce of the mines, according to the last rephad much improved, the copper ore being brought to grass averaging from to 13 per cent. The management of the mines is vested in a section of the rectors of the Alten Mining Association, John Labouchere, Esq., being chairman of both companies; the proprietary, however, is distinct, and, we lieve, the Queenangen Mines as yet are in the hands of a few parties.

MINING IN THE ARCTIC REGIONS.—Among the product brought from the

Whinso in the Arctic Regions.—Among the products brought from these egions by the expedition under Richard Chanceller, dispatched by King ames I., in 1605, was 30 tons or lead ore, from Cherry Island, near Spitzbergen.

MYNING IN THE ARCITIC REGIONS.—Among the products brought from these regions by the expedition under Richard Chanceller, dispatched by King James I., in 1605, was 30 tons or lead ore, from Cherry Island, near Spitzbergen, Cubrett Silver-Lead Mine.—At the Stannaries' Court, in this case, Mr. Stokes had obtained a rule nist for sale, and was now in a position to move to make it absolute; but rules absolute for sale had previously been obtained by Mr. Simmons, and Mr. Stokes wished to know whether he could move to have this case consolidated with Mr. Simmons's. The Vice-Warden gave judgment on the point, the substance of which was, that when a decree of sale was granted, it stopped the further proceeding of all other motions. A creditor, who had obtained a decree of payment, was also recognised by the court; but if a creditor had only filed his petition, he must proceed in the same way as another creditor. There was, however, great improbability that he could be defrauded; for in a very short time sales the court had taken possession under a decree of sale, advertisements were issued, and the creditor who had obtained a decree of sale, or a decree of payment.

WHEAL CURTIS.—At the Stannaries' Court, Mr. Roberts and Mr. Stokes moved to confirm the registrar's report in this case. This was a creditor's petition; and the concern had been wound up in the Court of Stannaries had possession of the mine and materials before application was made to the Court of Chancery.—The Vice-Warden remarked, that this Court and the Master's Office in Chancery had been concurrent, and inquired whether the result had been beneficial?—Mr. Roberts replied, that it had been very beneficial; a sale had taken place in the usual way, and the creditors had come in and proved their debts; there being among them a great number of small creditors.—The Vice-Warden asked if this was an instance, when any mines were wound up in Chancery, of the ease with which that Court could use the machinery of this Court according to its discretion?—Mr. Roberts

realised.—The report was then confirmed.

Newquay Railway and East Wheal Rose.—On Saturday week, Mr. J. T. Treffry invited to a dinner, at Clemen's Hotel, Newquay, the owners of the land on the line of the East Wheal Rose branch of the Newquay Railway, and the agents and adventurers in the mine. At two o'clock about 50 gentlemen set down to an excellent repast, Mr. Treffry in the chair, the vice-chairmen being Mr. Peass and Capt. Puckey. After the cloth was removed, the usual loyal toasts were drank, and among others were "Prosperity to East Wheal Rose," "The lords and adventurers of East Wheal Rose," and others. Great credit was awarded to Mr. Treffry, for the spirited works he had carried, and still was carrying, out in the county—indeed, works so gigantic that few single individuals would have ventured on them; that gentleman had, however, persevered, and in this last instance he was carrying a line from the Bristol to the English Channel, a distance of 20 miles, and forming a harbour of refuge for the mariner, a greater work than was probably ever undertaken before by a single person. The greatest harmony prevailed, and the company separated highly delighted with each other.

High Level Bridge over the Tyne.—The deflection perceptible from

HIGH LEVEL BRIDGE OVER THE TYNE.—The deflection perceptible from the weight of a train of 200 tons on the newly opened structure does not ex-ceed three-tenths of an inch, the weight being a much greater one than the bridge will ever be required to bear.

bridge will ever be required to bear.

ELECTRIC TELEGRAPH.—The French Government have authorised the establishment of a line of telegraph between Calais and Boulogne, which is intended to communicate with a submarine one across the Channel with the one at Dover. The telegraph at the Post-office, for communicating mail intelligence to and from the outports, has just been opened in St. Martin's-le-Grand. The trial of an underground telegraph, with the wires enclosed in tubes of gutta percha, is being tried between Brussels and Malines.

The MUTUAL PRINCIPLE IN LIVE ASSURANCE.—In mutual offices there are no shareholders, the policy holders themselves constituting the company.

no shareholders, the policy holders themselves constituting the company, amongst whom the profits are thus divided, and a policy in such offices has been known to increase in value no less than 600 per cent.; while with proprietary companies, of course the 500 per cent. would have been divided among the shareholders, the value of the policy remaining as at first, without the slightest increase — Ruilder.

the spareholders, the value of the policy remaining as at first, without the slightest increase.—Builder.

Annual Dinner to the Gas Interest.—On Tuesday last, Mr. N. Defries gave his annual dinner to gentlemen connected with the gas manufacture and the fitting trade, and friends, which was supplied at the Highbury Barn Tavern, in Mr. Hinton's beat style. On the removal of the cloth, and doing honour to the usual loyal toats, the health of the directors and officers of the metropolitan gas companies was drank, which was duly responded to by Mr. Gore, of the Chartered Gas Company.—He said, they were all deeply indebted to Mr. Defries for these meetings, which brought together the men employed in the retort house, and those on whom so much depended, for rendering available out of doors the gas which had been made.—He also alluded to the last new company, and advocated cheep gas, but said it was necessary to understand what cheap gas meant—it must not consist in ruining those who conducted the process. Dr. Bachlieffier's health was drank, who acknowledged it, and proposed the health of Mr. Defries, who said, it was gratifying to find so many friends of the dry meter present; there were now upwards of 30,000 of these metres in use, of which 8000 belonged to the Chartered Company, and of this large number, a greater portion of which had been in use for years, only 106 had required repairs.—After some other toasis interesting to the trade, and much convivality, the meeting separated, highly pleased with the evening's entertainment.

Current Drices of Storks, Shares, & Metals

STOCK EXCHANGE, S

Bank Stock, per Cent., 202 i 3 per Cent. Reduced Ann., 22 i 3 per Cent. Comols Ann., 22 i 3 per Cent. Ann., 94 i 4 Long Amulties, 5 i India Stock, 10 i per Cent., 252 i 3 per Cent. Comols for Acc. 22 i 5 per Cent. Comols for Acc. 22 i 5 Exchoq. Bills, 1000£, 1 id. 39 42 pm

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MINES .- A fair amount of business has been transacted this week in th mining share market; and from the general improvements in the mines, and advance in the standard, we may reasonably expect a proportionate increase. The inquiries for shares in our leading and dividend-paying mines have been active; but sellers are generally seeking higher prices, and actual business is

thereby delayed, by the necessary negociations which are going on.

East Wheal Rose, West Caradon, and South Wheal Frances, have paid their
bi-monthly dividends since our last notices, and have created buyers in consequence. Devon Great Consols, South Basset, North Pool, West Seton, South
Tolgus, and Treviskey and Barrier, are being sought for at or about former
quotations.

ouence. Devon Great Consols, South Basset, North Pool, West Scton, South Tolgus, and Treviskey and Barrier, are being sought for at or about former quotations.

Shares in the following mines have changed hands during the week: — East Wheal Rose, Devon Great Consols, South Tamar, North Pool, West Caradon, Mary Ann, Trelawny, Bedford United, Tamar Consols, South Molton, Kingsett and Bedford, Trehane, South Josiah, Cwm Erdin, Camborne Consols, Mendip Hills, East Buller, Wellington Mines, South Tolgus, Wheal Comfort, Tre-leigh.

West Caradon account for May and June was held on the 30th of August, when a dividend of 24. 10s, per share was declared. The financial statement shows a profit of 2921. 18s, on the two months' working, which, with balance from last account, gave a balance in hand of 20611. 11s. 10d.; after payment of dividend, a credit of 14211. 11s. 10d.; scarried to next account. The mine is stated to be in a progressing and highly satisfactory position.

At the East Wheal Rose meeting, a dividend of 38400. was declared, being 301. per share on the two months' working, carrying balance of 27161. 19s. 4d. to credit of next account. The sale of silver-lead ores for May and June realised 01,6001. 19s. 1d., and the mine is represented to have much improved in her bottom levels, especially in the 120, south of the engine-shaft.

South Wheal Frances account for June and July was held on the 3d instanf. The profit for the two months amounted to 12500. 9s. 4d., which, with balance from last account, gives a credit of 1897. 4s. 1d. A dividend of 100 per share was declared, leaving balance in purser's hand of 6571. 4s. 1d.

Coombe Valley Slate Company and died their accounts on the 27th August, showing their assets in slate, calls unpaid, and cash at banker's, at 4781. 18s. 11d.

For the more efficiently carrying on the works, an issue of 500 new ahares was resolved on, at 3d. 10s. per share was made, for further operations and discharging the balance against the company (24d. 1s. 7d.)—the principal operations bei In the foreign share market there has been considerable transactions durng the week. The advices from most of the Brazilian mines, received on the

5th, are of the highest importance; and have created a demand, especially for Imperial Brazilians, which have advanced. National Brazilians have also been in request; and several transactions have taken place. In United Mexicans, Copiapos, and St. John del Reys, many bargains have been effected.

been in request; and several transactions have taken place. In United Mexicans, Copiapos, and St. John del Reys, many bargains have been effected.

By Her Majesty's packet, Parel, dispatches have been received by the Imperial Brazilian, St. John del Rey, and National Brazilian Mining Companies. The Imperial Brazilian advices are down to the 22nd June, and furnishes the most gratifying intelligence as to the improvements at Bananal. The gold report gives the returns from Gongo, from 5th of June, 23, 3 bys. 5 coz. 5 dwts.; Bananal, 5th to 22d, 49 lbs. 5 coz. 12 grs.—58 lbs. 10 coz. 17 dwts. The total from both mines, since the 1st Jan., is 225 lbs. 6 coz. 18 dwts. The big pump vein has been gradually improving; and on the 14th and 15th of June, 23, lbs. of gold were raised, and the lode continues productive in sinking. The Magalhae's lode also holds out a promising and encouraging appearance. The National Brazilian report is to the 29th June; and although improvements were fully anticipated for some time past, nothing positive was seen before the 12th June in the eastern end towards Irving's lode, and on the 19th above Hartley's eastern stope, from whence some excellent work has been returned, and the prospect of continuing very gratifying—the produce in four days amounting to mks. 9 5 7 20; the total from Cocaes, from the 24th May to the 28th June, mks. 6 4 3 68; total mks., 39 7 5 45. St. John del Rey letters are to the 27th; and the gold extracted to that date gave 14,299 oits., from 815-61 cubic feet of sand; and the supply of stone continues to equal the expectations of the manager. The profit for the month of May we gave last week, amounting to 3698l. 12s. id.

The Copiapo report for May has been received, the returns for that period being given at 59 tons. The Checo is represented to have gradually improved; in the 20 and 40 fm. levels they have courses of ore of a rich quality. The San Pedro Mine continues as last reported; the stopes in the backs of the 5 and 10 fm. levels taill productive. The new coppe

than for some time past.

The Peninsular and Oriental steam-ships, Pacha and Eria, arrived at Southampton on Sunday, the 2d inst., the former bringing 13 packages of specie on freight. The Royal Mall steam-ship, 2ee, arrived on Tuesday, bringing the West India and Pacific mails, and having on freight 29:4391, ey about 193,000l. sterling—about 36:00,000 was in gold dust from California. The Ocean Steam Navigation Company's ship, Hermann, arrived on, the 3d, bringing on freight 10 packages of specie, about 32:0,000, and 20,000 free-franc pieces for Havre. Her Majesty's packet: Petrel, arrived at Falmouth on the 2d, with the Brazillan mall, and bringing on freight 25:000l. in specie. The Peninsular and Oriental steam-ship, Sullan, arrived on Thursday, having on freight specie to the value of 77, 770l. and 37 tons of copper and goneral cargo.

Shares sold during the Week.

Miscrellandous.— Auction Mart. 25; Australian Agricultural, 16; Upper Canada Bonds, 89; City Navigation, 99; Equitable Reversionary, 104; Hungesford, 47; Peninsula and Oriental Steam, 74; Reversionary Interest Society, 90; Royal Mail Steam, 55—4; South Australia, 18.

JOHN-STOCK BANKS.—Australasia, 25; Union of Australia, 25;—4; Union of London, 104; London Joint Stock, 167.

ATROCTOUS CONDUCT.—It is incredible to what lengths the blind passions even of great public companies will lead them.—The public narrowly escaped a frightful catastrophe on Tuesday, in the opening of the Great Northern line, when the trains were about to run from Doncaster to Leeds. The superintendent at Doncaster, having heard it whispered that something was going on at the junction of the Doncaster; having heard it whispered that something was going on at the junction of the Doncaster line with the Midland Railway at Methley, sent over a special engine before the trains, and found the servants of the Midland Company had removed the politic at the function, so that had the train proceeded thisher, it would have inevitably rus off the road. This, we understand, was done without any neites, in consequence of some dispute between the two companies, for which the Midland Company would have made the lives of her Majesty's subjects pay. Such an outrage must surely meet with its due punishment.— Doncaster Chronicie.

BIG SPRICES OF MINING SHARES.					
BRITISH MINES.	BRITISH MINES—continued.				
Stares. Company. Paid, Price	Shares. Company. Paid. Pr				
1000 Abergwessin 9 5 1034 Alfred Coulols 8 9 1000 Antimony&Silver-Lead 5 13	128 South Caradon 8 35 1100 South Dolcoath 5 236 Sth. Friendsh. Wh. Ann 30 28				
1000 Antimony&Silver-Lead 5	256 Sch. Friendsh, Wh.Ann 30 28				
1624 Balleswidden 9 18	256 South Tolgus 16 . 40				
128 Balnoon Consols 424 30	2000 South Wales Mining Co 1				
3650 Bawden	128 South Wheal Basset 204 3				
1280 Birch Tor Tin Mine 104. 5 6	256 South Wh. Josiah 14 74				
1000 Antimony&Silver-Lead 5 12 1004 Antimony&Silver-Lead 5 12 1004 Antimorphy 1004 Ant	236 Sth. Friendsh. Wh. Ann 30 32 345 South Molton 5 13½ 256 South Tolgus 16 40 258 South Trelawny 326 ½ 3000 South Wales Mining Co. 5 1 128 South Wheal Basset 20½ 3 124 South Wh. Frances 160 2 256 South Wh. Josiah 1½ 7½ 1000 South Wh. Maria 2½ 15000 Southerask Western, Frish 2½ 259 Spearne Moor 30 4				
100 Botalluck 182 25					
10000 British Iron, New, regis. 12 8	138 St. Michael Penkivel 5 1				
	1000 Stray Park 43 1				
128 Budnick Consols 521 10	9600 Tamar Consols 3 7				
1000 Camborne Consols 7 4 61					
1000 Callington 22 9 1000 Camborne Concols 7 4 6 90000 Camborn's Steam Coal 7 1 256 Caradon Copper Mine 94 1 1 256 Caradon Mines 224 10 256 Caradon United 24 58 256 Caradon William 24 58 256 Caradon William 24 48 256 Caradon William 24 48 256 Caradon William 24 25 256	256 Tregorden 31 5				
256 Caradon Mines 221 10	256 Trehane				
256 Caradon Wh. Hooper. 21 . 42	2000 Trenance 3				
256 Caradon United	2000 Trenance				
114 Charlestown220 —	120 Treviskey and Barrier 130 - 10 200 United Mines 50 - 15				
500 Combiawn 5\$ 44	256 Wellington Mines 25 35				
128 Comfurt	256 Wellington Mines 25 35 128 West Buller 10 2 256 West Caradon 20 1174				
1000 Coombe Valley Quarry 34 4	512 West Fowey Consols 40 1				
9560 Cook's Kitchen 14 2 2 3 3 1000 Coombe Valley Quarry 3 4 4 1000 Copper Betton 1 6 6 900 Court Grangs 5 10 1212 Craddock Moor 23 4 5 128 Creeg Braws 120 30 Cobert Mine 12 3 - 1000 Cwin Erfin 3 3 3 3 3 100 Derwent 5 5 5 5 5 120 Derwent 5 5 5 120 Cook Court Grangs 5 5 120 Derwent 5 5 5 5 120 Derwent 5 5 5 5 120 Derwent 5 5 5 5 5 5 120 Derwent 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	128 West State 10 2 2 2 2 2 2 2 2 2				
212 Craddock Moor 231 5	120 West Trethellan 5				
128 Creeg Braws129 30 500 Cubert Mine124 —	256 West Wh. Friendship 9				
1000 Cwin Erfin 31 3 31	256 West Wheal Tolgus 80 1				
845 Davon&CourtemayCon. 74. 11 2	206 West Wh. Friendship. 9 3725 West Wheal Jewel. 12 1 256 West Wheal Tolgus 80 1 256 West Wheal Tolgus 80 1 266 West Wheal Tosury 19 4 1024 Whiddon Mines 44 5200 Wickiow Coppur 5 8 107 Wheal Adams 79 3				
1024 Devon Great Consols 1 200	5200 Wickiow Copper 5 81				
182 Dolcoath 30 15	107 Wheal Adams 79 3				
10000 Duriam County Coal. 45 9	256 Wheal Albert 10				
3000 Dyfngwm 10 10 12	128 Wheal Ann 254 1				
545 Davonk Courtenay Con. 74 14 20 1024 Davona Great Consols. 1 200 1000 Dhurode 2 5 182 Dolcoath 30 15 2560 Drake Walls. 0 5 3 4 10000 Duriam County Coal 45 9 2500 Dyfngwm 10 10 10 12 1512 East Alvenney 5 5 6 2500 East Birch Tor 3 3 12 East Caradon 47 47	256 Wheal Albert 10 240 Wheal Anderton 25 1 1 128 Wheal Anderton 5 1512 Wheal Anna Maria 7 120 Wheal Bai 54 1				
2048 East Crowndale 64 4	256 Wheal Benny 144				
2500 East Birch Tor	256 Wheal Benny 144 1024 Wheal Bray 10 1 1256 Wheal Blencowe 21 1				
9000 East Tamar Consols	2324Wheal Calstock 9 20				
512 East Combe Silver-Lead 6 6 6 128 East Pool	268 Wheal Courtenay 121 256 Wheal Fortescue 15 388 Wheal Franco 27 11				
- East of Scotland Iron Co. 5 16	388 Wheai Franco 27 11 128 Wheai Harriet 45				
1280 Esgair Lies 14. 4 44	100 Witeal Henry 2				
494 Fowey Consols 40 45	112 Wheal Margaret 79 22				
1024 Freidd Llwydd Mines - 11 . 31 4000 Gen. Mining Co.for Irel . 11 . 11	208 Wheal Mary Consols 601				
256 Gonamena 441. 16					
256 Grambler & St. Aubyn 80 8 9	3000 Wheal Penhale				
100 Great Consols 1000 180 512 Gt. Wh. Rough Tor Con. 184 18 20	120 Wheal Reeth 41 150				
2000 Growa Slate Company . 5 5	198 Wheal Seton214 250				
6000 Heignston Down Con. 12. 2 1 1500 Hennock Silver-Lead. 1s. 1	494 Wheal Sophia 41				
956 Herodafoot 27 14	128 Wheal St. Ann 10 68				
0000 Hibernian 12‡ 14 1000 Holmbush 22 . 8 10	550 Wheal Trescoll 9 10				
1034 Kingsett and Bedford 14 31 4	128 Wheal Rose				
2048 Lamherooe Wh. Maria B 22	1924 Wheal Tremayne 91 3				
252 Lanarth Consols 4 128 Lelant Consols 90 40 160 Levant 200	1000 Wheal Vincent 27				
160 Levant	184 Wheal Vyvyan				
1000 Llwynmalees 8 5 54	250 Wheal Williams 28				
3600 Llynvi Iron 50 50 253 Lostwithiel Censols 23 10	CHAPTER AND AND AND THE PROPERTY OF				
5000 Marke Valley 10 # 1	FOREIGN MINES.				
203 Lostwither Consols 25 1 1 1 1 1 1 1 1 1	5000 Alten Mining Company 144 2				
1280 Nant-y-cria 5 5	15000 Asturian Mining Co 15				
256 New Hast Crowndale 21					
140 North Roskear 51 140	6000 Barossa Range 15 15				
250 New Mast Crownland: - 3; - 2; - 25	3000 Bolanos 150 150 2000 Ditto Scrip 15 1 10000 Brazilian Imperial 23 4				
128 Par Consols 554 650	10000 Brazilian Imperial 23 4				
300 Pennant & Craigwen 21 2	12000 Cobre Copper Co				
1024 Penzance Consols 22s 3d 3 512 Plymouth Wh. Yeoland 64 6 200 Polsaith Consols 51 4	4000 Guadalcanal 5 64				
512 Plymouth Wh. Yeoland 64 6 200 Polsaith Consols 53 4	5000 Kinzigthal Mining Ass. 2 1 5051 Mexican Company 591				
100 Rhoswiddol&Bachelddon10 · · 10 1000 Rhymney Iron · · · · · 50 · · 13	2000 Mexican & SouthAmer. 8 1 1				
0000 Rhymney Iron	5000 National Brazilian 30 4 104000 N. Brit. Australasian 1 78				
256 Hosewarva Mines 12 1	7000 Royal Santiago 10 5 11000 St. John del Rey 15 82 9 13174 United Mexican Av. 282 4				
1040 Dunnafaud County William B O	11000 Dr. com der well 10 95 9				
2048 Runnaford Coombe Tin 4 9 2000 South Tamar 1. 1. 1.	13174 United Mexican Av. 284 4				

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1,210	JOINT-STOCK BANKS.						
Shares.	Companies.		Paid.	Div. p	cent.	Price.	
22,500 Aus	tralasia		£40	£3		£25	
20,000 Brit	ish North American		50	6		40	
20,000 Cole	mial		25	5	*******	64 64	
20,000 Con	mercial of London		20		******	204	
	don Joint-Stock		10				
	don and Westminster		20		** ** ** **		
10,000 Nat	ional Provincial of England				*******		
20,000 Nat	ional of Ireland						
20,000 Pro	vincial of Ireland		25	8		40	
	h Australia		224			174 18	
00,000 Uni	on of Australia		25	6		25 25	
50,000 Uni	on of London		10	6		101	

Warmer of Dallmana	Leng		Present ac-			Traffic.	Return
Names of Railways.	1849	1848	tual cost.	p. share	1848	1849	184
Aberdeen	33	16	1,000,547	174 178	-	£ 670	£ 631
Belfast and Ballymena	374	374	514,968	194	5*	451	422
Birkenhead, Lancashire, & Chesh.	19	15	1,088,804	37	5+	994	872
Bolton, Blackburn, & West Yorksh.	14	-	786,384	7	-	447	171
Bristol and Exeter	851	754	2,660,490	68	-	4616	-
Caledonian	154	141	4,865.135	19	3	6809	5431
hester and Holyhead	84	594	3,358,217	131	4	2492	2291
Dublin and Drogheda	354	351	778,565	291	-	805	737
Dublin and Kingstown	74	71	895,915	Name to 1	-	1014.	1337
undes, Perth, & Aberdeen June.		474	544,554	-19	64	1405	1147
ast Anglian (Lynn to Ely)	914	554	1,167,104	24	-	673	520
ast Lancashire	754	24	2,628,519	144 4	5	3603	1525
astern Counties and Norfolk	322	295	12,027,069	8 7	-	15254	115300
astern Union	78	504	1.782,703	13	1.00	1497	1384
dinburgh and Glasgow	571	521	2,644,378	38	6	4269	4193
dinburgh and Northern	78	34	2,232,115	104	2	2748	2284
lasgew, Paisley, and Ayr	1021	74	2,574,330	50	3	3833	2910
leagon Dalales to Consultation	23	23	852,846	161	2	1528	1323
lasgow, Paisiey, & Greenock		20					1040
t. Northern & East Lincolnshire	126	1101	5,138,756	74	5† 6†	2221	000
t. Southern & Western, Ireland	1684		3,172,519	314		3423	3084
reat Western	2304	2064	11,867,042	67 67	64	16124	20449
ancaster and Carlisle	70	70	1,476,102	50	240	4212	3641
ancashice and Yorkshire	206	1274	9,218,450	721	44	14265	11961
iverpoel, Crosby, & Southport.	13	1,774	84,455	3	7	167	284
ondon and North Western	435	428	26,251,635	119	7	47028	46355
ondon and Blackwall	5	4	1,299,675	34 84	1-12	955	1163
ondon, Brighton, & South Coast	170	1624	6,502,600	741 74	2	12932	10218
ondon and South-Western	216	194	7,874,259	33	5	11410	11027
ondonderry and Enniskillen	144	144	185,739	16	1	-	131
anchester Shoffield & Lincolnsh.	157#	911	6,598,260	33	5	5061	3506
Idland Company	471	4234	14,042,340	67	541	24168	24178
Idland Great Western (friel)	50	364	725,332	244	49	1148	887
onklands	37	-	486,245	***	6	150	Been
orth British	1094	83	3,649,055	13	44	3905	3001
ottish Central	454	-	1,364,228	201	7	1761	1146
rewsbury and Chester.	48	23	969,618	12	5	1545	782
Properite Union	30	122	H1000007/38	24	-	282	0300
outh Davon	674	29	1,909,232	8 9	5	1955	1677
Oth-Eastern	1694	1651	8,116,914	204	84	13038	10526
III Valesquestas and account	40	40	879,110	Aug	71	1943	1605
STOT COMMENTS OF THE STORY	36	36	723,829	464		701	715
est Cornwall	13	1000	O'M BORES OF	STATE OF THE PARTY OF	-	248	262
hitelayen Junction	12	12	150,679	94	3	924	196
ork, Newcastle, & Berwick	269	2424	6,827,849	174	7		14119
ork and North Midlend		234	4,983,618	214	7	9139	9687
* Per cent Taterest Total fo					19500		

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	ATTO DENIM	DRIGHE	AB	METERATO
TOTAL PORT	CURRENT	PHICES	Maria.	MALAND.
And the second	FORMON ON	WHITE PRO	40.44	CONTRACTOR DESCRIPTION
-BOTT BOTT	LONDON, SEL	TEMBER T	2000	Challing Department of

Basclass tacks		
Nail rods	ENGLISH thow. a per lon.	Tile
Nail rods	Bar, bolt, & square, London £5 15 0-6	Old conpare per lb. 8d
Hoops	Nail rods 7 0 0	
Sheeta (chingles)	Hoons 7 15 0-8	
Bars, at Cardiff & Newport	Sheets (singles) 8 10-8 15	PROPERTY OF THE PROPERTY OF TH
Refined motal, Wales* 3 10-3 18 Do. anthractics* 3 18 0 Pigs in Wales 3 18 0 State 18 0 0 Pigs in Wales 3 5-4 5 Do. No. 1, Clydemer coah 2 4 6-2 6 Bod. 19 0 0 State 19 0 State 19 0 0 State 19 0 State 19 0 0 State 19 0	Bars at Cardiff & Newmort 5 2 6-5 5	ENGLISH LEAD. 9
Do. Anthracite® 3 18 0 0		
Pigs in Wales 3 5-4 5 Do., No. 1, Clydemercan 2 4 6-2 6 Blowitt's Patent Refined 1 fron p. 10 for bara, rails, &c., free on 5 3 15 0 board at Newports 5 Be., do., for tin-plates, boiler 1 plates, &c., ditto 1 glates, e., ditto 1 glates, e., ditto 1 glates, e., ditto 1 glates, e., ditto 1 glates, a 5-4 5 Staffordshire bars, at the works 6 10 Pigs, in Staffordshire bars, at the works 6 10 Pigs, in Staffordshire 2 15-3 9 Bails 1 glates, e., ditto 1 glates, e.,		
Do., No., Clyde Do., Clyde		
Do., No. 1, Clydems*cosh 2 4 6-2 6		White ditto 22 0 6
Blowti's Patent Refined Iron for bars, artisls, &c., free on 3 15 0 board at Newports	Do. Wo I Clarke and each 0 4 6 9 6	Patent shot 19 15 0
Spanish, in bond		PORTIGN LEAD. A
American ditto Amer		
Dec. do. for lin-places, boiler		American ditto
Special Companies 1 Glasgow 2 14 - 2 16 Sar Staffordshire Staffordshire 2 15 - 3 Staffordshire 2 Staffo	board at Newport	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
Special Companies 1 Glasgow 2 14 - 2 16 Sar Staffordshire Staffordshire 2 15 - 3 Staffordshire 2 Staffo	no., do., for tin-plates, boller 4 10 0	
Toughened Pigs In Wales 3 5-4 5 Staffordahre bars, at the works 6 10 Pigs, in Staffordahre 2 15-3 0 Staffordahre 2 15-3 0 Staffordahre 2 15-3 0 Staffordahre 3 10 0 Straits 3 8 0 Chairs 4 0 0 Straits 3 8 0 Chairs 5 5 Straits 5 5 Straits 3 8 0 Chairs 5 5 Straits 5 5 Straits	plates, &c., dillo	Blockper cut. 3 13 0
Staffordshire bars, at the works 6 10 FOREIGN TIN &		Dar 3 14 0
Pigs. in Staffordshire	Touguened Figs in Wales 3 5-4 5	Menned 3 19 0
Ralis		FOREIGN TIN &
Straits		Banca, in bond 3 10 0
PORRIGH IRON. b		
Swedish Floating		Pernyian (6 mo 24 p. ct. dis.).
C Coke per box 1 7-1		
C Charcoal 1 10-1 1		
X ditto 17 0	CCND	10 Cokeper oox 1 7-1
Archangel	PSI	IC Charcoal 1 10-1 1
Swedish keg	Gourieff	1A ditto 1 17. 0
Swedish keg 14 0-14 10 Ditto, to arrive 15 15-14 17 Ditto faggot 15 0 0 ENGLISH COPPER. d English sheet per (on 22 0 Sheets, sheathing, & boilts, p. lb. 0 9	Archangel	
Swedish keg 14 0-14 10 Ditto, to arrive 15 15-14 17 Ditto faggot 15 0 0 ENGLISH COPPER. d English sheet per (on 22 0 Sheets, sheathing, & boilts, p. lb. 0 9	PORTION STEEL C	Plates, warehoused per ton 15 0-15
Ditto faggot		
English copper. d English sheetper ton 22 0 9 Sheets, sheathing, & bolts, p. lb. 0 0 9		
Sheets, sheathing, & bolts, p. lb. 0 0 9		Fredish shoot menter 00 0 0
Sheets, sheathing, & boits, p. to. 0 0 9		English sheetper ton 22 0 0
	Sheets, sheathing, & bolts, p. lb. 0 0 9	
lough cakeper ton 19 10 0 1 QuickstLven 0 ,per to. 28.11d, 3	Tough cakeper ton 79 10 0	QUICKSILVER 0 , per lb. 2s. 11d. 3
Terms a, 6 months, or 21 per cent. dis.; b, ditto; c, ditto; d, 6 months, or 3 per ct		
dis; e, 6 months, or 21 per cent. dis. : f, ditto ; g, ditto ; h, ditto ; i, ditto ; k, net cash	dis: e, 6 months, or 21 per cent, dis. : f, dit	to : g. ditto : h. ditto : i. ditto : k. net cash

dis; 4, 6 months, or 24 per cent. dis; 7, ditto; 4, ditto; 5, ditto; 1, ditt

Giasgow. No. 1 Gartheterie is held at 46s.

MONTHLY REPORT.—Ison.—There has been an improved demand for Welch bars during the past month. Makers have realised 54.54, per ton, free-on-board in Wales, for parcels for immediate delivery; and, in second hands, there is nothing to be had under 54.2s. 64, per ton. For rails there is also more inquiry. The price of Stafford-shre iron is without alteration. Owing to a strike among the colliers, some difficulty was recently experienced in executing orders, but these have now returned to work, and supplies can be had from Staffordshire as before. In Scotch pig there has been a comparative absence of business; the market wears a drooping aspect, and the price is nominally 44s. 6d. mixed Nos. ordinary brands, and 46s. per ton No. 1 Garthsherrie. In Swedes iron there is little doing.

Coryex has, of late, been in good demand, and at the present price, the copper houses evince little inclination to add to their orders. A rise is generally anticipated.

Thy.—English is in moderate request, and the price firm. Foreign is little inquired for. Straits was bought in at public sale at 68s. per cws.

Thy FLATES.—Ose plates are much enquired for, and are still scarce, owing to a continued deficiency in the supply of water required for the tin plate works.

Laza is in moderate request.

SPRITES.—Holders sals 151. and 151. 5s. per ton on the spot; for spelier to arrive 141. 17s. 6d. per ton has been paid. The stock here is small, only 136e tons, against 28 to tons at this period last year; but it is apprehended that a considerable quantity must now come in from the other side before the closing of the navigation, and buyers, in consequence, hesitate to purchase.

SERT. 7.—The arrivals of spelier yesterday and to-day have been very large, amounting to upwards of 1000 tons.

MANCHESTER, August 31.—In the absence of all matters of more immediate intervent.

come in from the other side before the closing of the navigation, and buyers, in consequence, hesitate to purchase.

SEPT. 7.—The arrivals of speller yesterday and to-day have been very large, amounting to upwards of 1000 tons.

MANCHESTER, Aporer 31.—In the absence of all matters of more immediate interest relating to the iron market, we think this a favoumble opportunity for offering a few remarks upon the present position and prospects of the iron trade, having more expecial reference to the market for floorch pig iron, as presenting the smallest symptoms of increasing activity of any article connected with this important branch of our national commerce. We took occasion some time ago, when the market for this article was somewhat similarly circumstanced as at present, to caution the dealers that the then low prices of iron, could not, in the face of the facilities for holding stock afforded by the Scotch banks, and of the prospects of a general improvement in the trade of the country which were then presented, continue, and that, in our opinion, a considerable advance upon the rates then ruling must be locked for. Our expectations in his particular were fully realised, then ruling must be locked for. Our expectations in his particular were fully realised, influenced in giving this opinion, by the expectation that, a considerable advance upon the rates then ruling must be locked for. Our expectations that considerable advance upon the anticipated rulsing of the blockade, we frankly admit, and, since this has not followed to the extent expected, we are not surprised that, with a continued large production, and consequent accumulation of stock, a temporory suspension of business should have occurred. It is, perians, an indication of the lowness of the current prices, that they should not have recorded to a greater extent, but as they are still higher than at the time referred to above, we do think that if the make continues on the production, and the probable effect while make continues on the continued large

EXPORTS OF METALS TO ALL INDIA FROM LONDON AND LIVERPOOL.

FOR THE FIRST EIGHT MONTHS OF 1848 AND 1849.						
7	Melals.	1848.	1849.	In.	in 1849.	Dec. in 1848.
	Spelter	Tons 2261 .	3005		744	
	Copper	2434	4207		773	
1	Iron, British	14009 .	22852	1	843	420
	Ditto, foreign	208 .	1426	1	223	A TAMES
	Tin-plates	Boxes 2931	10188	7	257	ATTICATION OF
	Lead					
	Steel	110	748		638	
	Onicksilver	Intiline 15	100	period and	177	

CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in bars ... per oz. £3 17 9 | New dollars per oz. £0 4 10}

" Portugal pieces... 0 0 0 | Silver ia bars (standard) ... 0 4 11\$

THE CHIORIDES OF GOLD.—Great difficulty has hitherto occurred in preparing the chloride of gold, of the yellow and red colours, perfectly soluble in water, and without suffering reduction. The following processes are recommended for this purpose:—In order to prepare the yellow salt of gold, take aqua regia prepared with three parts of hydrochloric acid, one part of nitrie acid, and one of distilled water. Then put one part of pure gold into a porcessial in capsule with a plate of glass, and heat it in a salt-water bath, the heat being gain covered, the heat is to be continued till red vapours cease; the cover is then to be removed, and if the gold is not entirely dissolved, some aqua regia is to be added to it, the capsule being again covered, the heat is to be continued till vapour ceases to appear; the glass plate must then be removed and replaced by folds of blotting paper, the heat being continued in the bath until a glass rod, upon being immeraed in the capsule, becomes covered with yellow solid chloride of gold. The capsule is then to be removed from the salt-water bath, and the chloride of gold soon crystallises in small prismatic crystals, of a fine yellow colour, with an orange time. The chloride thus obtained is perfectly soluble in water without reduction; it is auccessfully employed in deguereotype and other operations. The capsule is prepared with two parts of hydrochloric, and one part of nitric acid. The operation is commenced by acting upon gold with excess of aqua regia on a sand bath, the salt-water bath not being used until the gold is entirely dissolved; the remainder of the operation is conducted in the same manner as that for the yellow chloride.

MEETINGS DURING THE ENSUING WEEK. MONDAY ... Irish Waste Land Improvement Company—offices, at One.
TUSBDAY ... Gas-Light and Coke Company—offices, at Eleven.
Whomshiday ... Guadalcanal Silver liming Association—offices, at Two.
FRIDAY ... Lisselly Railway and Dock Company—offices, at One.
Mentor Life Assurance Company—offices, at half-past Two.

As American Railway.—For want of a double track on the Camden and Amboy Railway, in the State of New Jersey, collisions are constantly occurring between passenger and merchandise trains. The road, from neglect, is in many parts so decayed, that the sleepers move with the motion of the trains, and the rails are split. A few months since, a train was precipitated through an open drawbridge, and the passengers only saved by the car hanging over the chasm. Delays take place frequently from the breaking down of engines. It is said that the managers meanwhile confine their attention to doubling the fares, and dividing 12 per cent.

NOYEL RAILWAY ROBBISHES—A apmowhat novel description of fraud has

NOYEL RAILWAY ROBBERIES —A somewhat novel description of fraud has just been discovered. It consists in the removal of the legitimate tickets of direction from parcels of goods to be transferred by railway, and substituting other tickets, directed to a person who acts as a receiver in some other town than the one for which the goods were really intended.

ANOTHER COLLIERY STRIKE.—The misguided men at Castle Eden Colliery, Durham, have struck work; for what reason no one seems to know, as the wages are extremely good. R. Burdon, Esq., the proprietor, immediately obtained 30 policemen, to keep the malcontents in check, and got other men to screen the coal at grass, in order to load some vessels then waiting for cargo. It is expected they will soon return to their employment.

LEAD ORES

11.1 11.0 E V		Sold at Abe	rystwith,	, Sept	ember	3.	they make the sealow of
Mines.	A Company	Ton		P	rice.	150	Purchasers.
East Logylas		60		£9	9 6		Newton, Keates, & Co.
Cwmystwith	т.	otal tons		9	5 6	170.	ditto
			ld at Be				
ditto Arkansas ditto Shallee ditto		20 3 45 7 31		£ 7 5 18 1 20 14 1 9 1	5 0 10 0 16 0 5 0 10 0 15 0		ditto Mather & Co. ditto Walker, Parker, & Co.
			d at the				
East Wheal I ditto ditto		85		£12 1 11 1 12	3 6 8 6 2 6		T. Somers. R. Michell & Son.
		67		£13	6 0		Somers. Walker, Parker, & Co.
A TOP I		Sold	at Beer	ilston			

	Mines.		Tons.	1	Price	per	To	on.	Purchasers.
	Charlestown		104		£40	12	6		Daubuz; Calenick; Williams.
	ditto				96	10	e		Colonials Constitue Co
	Mineral Court	Cuts. 16	2 5		48	0	0		J. H. Enthoven & Co.
	ditto	0	2 7		17	0	0		ditto
ı	ditto	11	2 18		48	0	0		ditto
	ditto	0	1 25		17	0	0		ditto

COPPER ORES.

Mines.	Ton	18.		Pri	ice.	Arines. Tons. Price.
North Roskear	93		E 6	7	6	North Pool 61 £2 17
ditto	88		4	18	6	Tincroft 78 3 10
ditto	87		4	18	6	ditto 77 2 19
ditto	80		4	15	0	ditto 74 2 17
ditto	79		6	7	6	ditto 67 4 11
ditto	78		.5	10	6	ditto 61 4 19
ditto	75		4	5	0	ditto 50 1 12
ditto	68		6	9	6	ditto 41 4 2
ditto	65		3	6	0	ditto 23 8 3
ditto	59		Ā	13	0	Wh. Seton 84 4 14
ditto	54		6	7	6	ditto 82 4 5
ditto	40		9	4	0	ditto 80 3 0
ditto	34		-	3	0	
Consolidated	112		6	8	6	
ditto	111		0	9	6	
ditto	99	** **	0	9	6	
ditto	88	****	4		0	
ditto			5		0	ditto 72 · · · 5 16
ditto	81	****	D	11	0	ditto 51 5 1
ditto	70		. 5	15	0	ditto 65 7 15
ditto	54		7	5	6	ditto 56 12 6
North Pool	113		5	11	6	South Wh. Basset, 66 3 14
	110		5	14	6	ditto 55 13 12
	107		2	15	-6	ditto 54 13 12
ditto	97	****	5	10	6	South Roskear 104 4 6
ditto	62	****	2	13	6	Wh. Vyvyan 26 5 10
ditto	-		-			

MATERIAL APPROPRIATE AND ADDRESS OF THE PARTY OF THE PART			10	LA	L F	RODUCE.					
North Roskear	900	£	4423	11	6	Fowey Consols	218	£	1304	10	6
						South Wh. Frances					
						South Wh. Basset.					
						South Roskear			447	4	0
Wh. Seton	453	****	2002	15	0	Wh. Vyvyan	26		143	13	0

 COMPANIES BY WHOM THE ORES WERE PURCHASED.

 Tons.
 Amount.

 Mines Royal.
 244
 £ 1282 14
 6

 Vivian and Sons.
 1036
 4833 15
 9

 Freeman and Co.
 291
 2233
 4

 Pascoe Grenefell and Sons
 290
 1218 17
 0

 Crown Copper Co.
 87
 406
 7
 3

 Sims, Willyams, and Co.
 632
 3906 15
 4

 Williams, Foster, and Co.
 927
 5026 14
 4

 Schneider and Co.
 294
 1641
 4

Copper ores for sale on Thursday next at Andrew's Hotel, Redruth.—Mines and Parcels.—Carn Brea 904—Tywarnhayle 509—Far Consols 257—Levant 217—West Wheal Treasury 198—Wheal Tremayne 185—Wheal Agar 130—West Wheal Buller 104—Charlestown United Mines 199—Creeg Braws 33—St. Aubyn and Grylls 14—Godolphin Consols 7—Wheal Fortune 2—Sast Crinnis 1.—Total 2671 tons.

Copper ores for sale on Thursday week, at the Royal Hotel, Traro.—Mines and Parcels.—Devon Great Consols, Wheal Jossiah, Wheal Maria, Wheal Fanny, and Wheal Anna Maria 1326—West Caradon 299—Fowey Consols 220—Wheal Friendahip 217—Poldice 169—Bedford United Mines 134—Wheal Matlen 42—Phoenix Mines 32—Wheal Jewel 28.—Total quantity of ore to be sold, 2467 tons.

COPPER ORES

Mine

	Samplea August 15, and Sola at Swansea, Sept. 6, 1819.											
s.			Ions.	10	Prod.	P	rice		Mines.	Tons.	Prod.	Price
			. 62		211€	16	2	6	Cobre	53	224 #16	16
									ditto			
			. 52		24	.17	11	6	Cuba	110	13 9	18
			67		24	-17	16	6	ditto	70	224 17	3
			66		944	17	18	6	ditto	69	917. 17	0

Cobre . . . ditto ditto ditto ditto ditto ditto 56 244 16 17 6 | atto 135 ... 104 ... 8 3 104 ... 144 ... 10 12 0 | ditto 110 ... 104 ... 8 1 TOTAL PRODUCE.

COMPANIES BY WHOM THE ORES WERE PURCHASED. Tons. Amou

the second secon	Tons.	Amount	
English Copper Company	122	£ 2090 5	3
Grenfell and Sons	110		0
Sims, Willyams, and Co	139	2382 3	0
Vivian and Sons		2202 13	0
Williams, Foster, and Co	201	2361 9	6
Schneider and Co		1892 13	0
British and Foreign Copper Company	129	2188 8	3
Total tons	1150 €	14 909 7	0

Copper ores for sale Sept. 20.—Cobre 96, ditto 92, ditto 85, ditto 48, ditto 29, ditto 73, ditto 69, ditto 69, ditto 25.—Sanliago 81, ditto 73, ditto 83, ditto 87, ditto 86, ditto 88, ditto 8.—Ballymurtagh 50, ditto 49, ditto 43, ditto 34.—Berchaven 102.—Knockmahon 79.—Burra Burra 32.—Total, 1523 tons.

THAMES TUNNEL COMPANY

The number of passengers who passed through the Tunnel in the week coding Sept. I was—No. of passengers, 11,703. —Amount of money, £48 15s. 3d.

NOTICES TO CORRESPONDENTS.

a We must impress upon our correspondents, the necessity of inva-us with their names and addresses—not that their communicati sequently, be noticed, but as an earnest to us of their good faith. sity of invaria

sequently, be noticed, but as an exruest to us of their good faith.

A Shareholder? (City).—The small town of Gusdalcanal, fameos for its silver mines, is 19 leagues from Seville; the ports from the latter city are Brenes, Castillana, and Casalla. The country is rich and well cultivated, but barren between Casalla and Casalla. The country is rich and well cultivated, but barren between Casalla and Casalla. The country is rich and well cultivated, but barren between Casalla and castillane Beyond this town the Guadalquivir is crossed.

ENTURING COMPANY.—A Correspondent at Paris states to us, that while reading, in the Mining Journal, the report of the meeting of the Asturian Mining Company, and the swkward predicament in which the shareholders are placed, he, by a strange coincidence, received a letter, dated August 26, from Pols de Lena, near Misres. In this letter he was informed, that on the day previous there was a grand feast among the workpeople of the Asturian Mining Company, at Misres: much lignor and wines were drank, and great intexication ensued; the people fired off guns, and it was openly and layously asserted that they were going to have more money than ever to spend. Our correspondent sake, how is this fact to be astimated, considering the depressed, the values states of the property—at least, as regards the English shareholders. He says he writes from a feeling of indignation, and a wish that the shareholders here should be acquainted with the scandal.

be acquamed with the scattes.

Obsert Williams (Tredegar Iron-Works).—There is but very limited demand for s
of barytes—it is principally used to adulterate white lead. There are son
deposits in several districts lying unbeeded, as the consumption of the article

SEASI.

IN ATMOSPHENIC SYSTEM.—Mr. Weston may rest assured that the observations in Mr. Bergy's communication, in our last number, "heterogeneous mass of truth and error, practicability and absurdity," was by no means intended personally. The observation was, no doubt, written as advisedly and considerately as it was put in type; and we are satisfied no man of common scientific attainments, who has watched the emanations from the Enrollment Office for the past sit years on atmospheric propulsion, but must subscribe to the truth of the remark. It would be useless to publish the whole contents of our correspondent's communication: we feel assured his invitation to a public discussion on the merits of the various plans would be unnoticed by the few parties now in the field for carrying out the atmospheric principle—one of which, we have no doubt, will soon be in operation on a sufficient length of the to convince the most sceptical of its practicability and advantages. Such invitation would meet alike fate as Mr. Weston's proposal for the several patentees to amalgamate, Join their interests, and carry out the most advantages uplan. Inventors who feel satisfied their systems are based on sound scientific, practical, and economic principles, cannot be expected to give up a share of these advantages for crude undigested theory.

An Old Condenser," on the Atmospheric Principle of Railway Traction, shall appear in

An Old Condenser," on the Atmospheric Principle of Rallway Traction, shall appear in next week's Journal.

next week's Journal:

"An Enquirer" (Truro).—Johannite, or hydrous sulphate of uranium, mixed with sulphase of copper, occurs in extremely small crystals, in Joachimstinal, in Bohenias. It is a species as beautiful as it is rare, having only been observed in one mine, and that in 1809. It soloner is deep grass green, translucent; lustre vitrous: streak pale siakin green; taste slightly bittar; fracture imperfect conchoidal: partially solutable in water. Heated in the matrass, it yields much moistare, leaving a dark brownish mass; fused upon charcoal with sods, and then laid on a piece of silver, and moistened, it blackens the metallic surface. In the reducing fame, with sods, a bead of copper is obtained. With borax, it forms a fine green glass, as well in the oxidating as in the reducing fame; in the latter it becomes red and opaque on cooling, exhibiting the presence of oxide of copper. With salt of phosphorus only green colours are produced, that of the oxidating dame having rather the appearance of copper, the reducing more of uranium. It, therefore, contains water, sulphuric acid, and the oxides of copper and aranium, but in what proportions has not been determined. It was named by the celebrated chemist, Haidinger, in compliment to his imperial highness the Archduke John of Austria, the present Vicar of the Gorman empire.

"D. F." (Colchester).—Indigo combined with gypsum, and sometimes Prussian blue, is

D. F." (Colchester).—Indigo combined with gypsum, and sometimes Prussian blue, is used to dye green teas.

A. P. "(Lime-street).—A detailed description of the mines of Almaden, by Don Casia de Prade, was published in Madrid, 1846; several notices of which have at differe periods appeared in our columns.

appeared in our columns.

meer " (Greenwich).—The Rialto was built by Giovanni da Ponte, in 1591, over
nd Canal, at Venice. The chord of its arch is 96 ft. 10 in.; its versed sine.

; its venseoirs, at their vertex, 4 ft.; its height from the water 21 ft., and its

width 66 ft.

G. Harries (Penzance).—There are two mines of mercury at Zalathna, in Transylvania. The ore of the one is cinnabar, which is extracted from a vein in a matrix of quarts and calcarious spar, traversing a black angiliaceous slate and sandstone. The ore of the other mine is granulated cinnabar, in a vein which runs in limestone. The produce of these mines is estimated to be about 6000 bs. of pure quicksilver annually. George Hampson (Rugby).—The boundary line between the United States and Canada, run in accordance with the Asiburton treaty, cost the labour of 300 men during 18 months. For 300 miles a path was cut through the forest, 30 ft. wide, and cleared of all trees. At the end of every mile is a cast-iron pillar, painted white, 4 ft. out of the ground, 7 in. square as the bottom, and 4 in. at the top, with raised letters on its sides, naming the commissioners who run the line, and the date.

I. Hissen's Magnehure? The greater part of the sine works are situated in the neigh-

ground, 7 in. square at the bottom, and 4 in. at the top, with raised setters on its sides, maming the commissioners who run the line, and the date.

L. Hirsch (Magdeburg).—The greater part of the sine works are situated in the neighbourhood of Birmingham and Bristol. The manufacture of brass, which has long been one of the staple articles of these towns, was probably the cause of the introduction of this branch of industry, at the period when brass begun to be made by the direct union of copper with metallic zinc, instead of calamine. A few sine furnaces exist also in the neighbourhood of Sheffield, amidst the coal pits surrounding that town. Bristol and Birmingham derive their chief supply of ores from the Mendip Hills and Flintshire, and Sheffield from Aiston Moor. The English furnaces for smelting zinc ores are sometimes quadrangular, sometimes round, the latter form being preferable. The mixture of reducing consists of one-fourth part of the desulphureted oxide, one-fourth of calcined calamine, and one-half part of charcoal, which commonly affords 30 per cent. of sinc.

naive license of M. Chameroy's patent for sheet-iron pipes, a description of which ap-tared in our Journal a few weeks since.

clusive license of M. Chameroy's patent for sheet-iron pipes, a description of which appeared in our Journal a few weeks since.

'Chemicus' (Bristol)—Bottger makes use of the following apparatus for gilding and platiniang. A wide cylinder has a hole in the middle of its base, through, which there passes a copper wire, cemented in with sealing was. The part of the wire within the cylinder is formed into a flat spiral, upon which is laid a piece of analgamated zinc. The cylinder contains very dilute sulphuric acid; in this is immersed a cylinder, open at the top and bottom, but tied over at the bottom with a thin bladder. The cylinder contains solution of gold, in which the metal to be gilt is immersed, after it has been first connected, by means of a platinum wire wound round it, with the copper were proceeding from the zinc. The gold solution contains one part of chloride of gold, freed as much as possible from excess of acid, in 160 parts of water, or, still better, chloride of gold and solution dissolved in water. Each immersion lasts for a minute at the utmost, and is followed by vashing with water, and drying (accompanied by brisk rubbing with fine linen) and polishing with powdered chalk. Silver requires five or six, steel ten or twelve, immersions, lasting from half a minute to a minute. When the silver bejuct is connected with the zinc by a copper wire, part of which dips into the solution of gold, the gilding acquires a strong reddish tint; whereas, when silver or platinum wires are used, it is of a fail bright yellow. If the gold solution contains the smallest trace of copper, scarcely anything but copper is at first deposited upon the allwer. Copper also does not show any appearance of gilding, not very beautiful. Watch springs take a very beautiful gilding when they are freed by hydrochloric acid. Gramma silver gives a copperty kind of gilding, not very beautiful. Watch springs take a very beautiful gilding when they are freed by hydrochloric acid.

However, the content of the metal shines through. B

by strong hydrochloric acid.

eorge Grimsey (Witham).—The mordants chiefly employed by dyers are the sulphate
of alumine, or the acctate of alumine, made by the addition of alum to a solution of
acetate of lead, when, by a double decomposition, sulphate of lead is formed and precipitated, and the acetate of alumine is also formed, and remains in solutions—the
nitro muriate, the acetate, and the tartrite of tin, the red acetate, and the red sulphate

mitro muriate, the acetate, and the tartrite of tin, the red acetate, and the red sulphate of iron.

L.B. (Bucklersbury). —The purity of gold is not estimated, either in Great Britain or other countries, by the weights commonly in use, but by an Abyssinian weight, called a "carat." The carats are sublivided into four parts, called grains, and these again into quarters, so that a carat grain, with respect to the common division of a pound troy, is equivalent to 2 dwts. Gold of the highest degree of fineness, or pure, is said to be 24 carats fine. When gold coins were first made at the English mint, the standard of the gold put in them was 22 carats, 34 grains fine, and i grain of alloy; and so it continued without any variation to the 18th Henry VIII., when a new standard of gold of 22 carats fine, and 2 carats alloy was introduced. The first of these was called the old standard; the second, the mes standard, or crown gold, because crowns, or pieces of the value of 5s., were first coined of this new standard. Henry VIII. made his gold coins of both these standard studer different denominations, and this practice was continued by his successors until the year 1633. From that period to the present, gold coins have been invariably made of the new standard; or crown gold, although some of the coins made of the old standard, previously to 1638, continued to circulate till 1732, when they were forbidden to be longer current. The standard of the present gold is divided into 48 93-129 sorrerigns, each of which ought, when fresh from the mint, to weigh one 46 89-129th part of 12 ozs., or 5 dwts. 3 171-633 grains of standard gold, or 4 dwts. 17 18-11,144 grains of pure gold. Twelve ounces of the metal of which standard English silver coins are made, containing 11 ozs. 2 dwts. fine, and 18 dwts. alley: and a pound troy of this standard silver, or pound stroying, contains 68s., or 20-66 parts of 11-12ths of a pound troy of fine silver, that is 1614 38-66 grains. From the 43d of Elisabeth down to 1816, when the Act 56f o e carat is a bean, the fruit of an Abyssinnian tree called "kuara." e time of its being gathered, varies very little in its weight, and set the earliest ages, a weight for gold in Africa.

G. F." (Lullingstone).—Pyntoe, or copperas stones, are collected in the Isle of Sheppy, in Kent, in great quantities. About the year 1579, an old chronicle states—"One Matthias Falcomer, a Brabsetter, did try, and drew very good brinstone and copperas out of certain stones, gathered in great plenty on the shore near unto Minster."

An Inquirer." The engraving and description of Concluded in the Mining Journal of the 22d July, 1837. en's Wind Machine was pul

PRINCIPALITY OF WALES.—Erratum.—In the concluding part of this paper, in last week's Journal, the last year's produce of the Flintshire lead mines was erroneously stated 1056, instead of 10,006 tons of ore.

The numerous disappointments in procuring back Numbers during the past yet induces us to suggest, that subscribers should be careful in filing, or otherwise preserving, their papers; and where extra copies are required, that they should be applied for as early as possible.

We should feel obliged to all pursers, captains, or adventurers, to forward particulars of meetings, &c., of the mines with which they may be connected, on the cartiest opportunity, that they may be published in the Journal.

An Inventor * (Leeds) had better consult Mr. F. W. Campin, of the patent office, 210, Strand, who will advise him as in the best course to pursue. Indeed, we may here state generally, that 21r. Campin will at all times be most ready to give all necessary information with respect to securing patents or registrations of designs. Mr. Campin will also forward to applicants on deficial circular of information, with scale of fees, &c. also forward to applicants an exerci circular of librarians, was scale it respectively constant Reader "(Broad-street).—Chloroform has, we believe, been used as a mopower in steam-sugfines in Paris. The vapour acts exactly like steam, and while cuts power on one side of the piston, is condensed on the other. The alternate oriestion and condensation can be continued with very fittle waste of the chloron, and a much less quantity of siel is recessary than in an ordinary engine.

To the Editor,

Mining Journal Office,

26, FLEET-STREET, LONE

MINING JOURNAL Railway and Commercial Gazette.

And Post-office orders made payable to Win. Salmon Mansell, as acting for the propo

LONDON, SEPTEMBER 8, 1849.

he Memero Jouanal is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

A return has just been made, by order of the House of Commons on the motion of Sir John Guest, of the quantity of foreign iron imported into, and exported from, the United Kingdom in the year 1848, distinguishing the several sorts of iron, and the countries from which imported, and to which exported. British iron exported in the same period, including unwrought steel, with the countries to which the same were exported, and the quantity of British hardware exported in the year 1848, distinguishing the countries to which exported, and the declared value. The quantity of foreign iron imported was as follows—wix. iron imported was as follows-viz. :

Countries.	Iron in b	ght.	Bloom	old o	cast-b	n and Ir	val	ue.	
Russia	Tons 4297	*******	50	*******	86	*******	£ 42	10	6
Sweden	19322		162	******	61	******	12	15	0
Norway	148	****	253		3	******	37	9	1
Hanseatic Towns		*******	-		-		1032	13	6
Holland	****	** ** ** **	-	******	-	******	8553	5	3
France								9	0
Belgium								10	6
China		*******	-	** ** ** **	-	*******	517	15	3
Sundry places	101		-	*******	137	*******	1228	12	7
The state of the s	-				_			-	_

Total Tons 23,869

Iu addition to which, there were 1340 tons chromate of iron from America and Norway, 283 tons of pig, 91 tons of cast-iron, 348 tons of unwrought steel, and 340 tons of wrought iron and steel from various countries. The foreign bar-iron was exported to—United States, 1747 tons; East Indies, 579 tons; Egypt, 206 tons; Greece, 184 tons; Gibraltar, 172 tons; Chili, 116 tons, and various countries—making the total exported, 3432 tons. The quantity of nuwrought steel exported was 340 tons; and the amount of wrought iron and steel entered by value was to—East Indies, 6689l.; United States, 1090l.; Holland, 780l.; Australia, 372l.; China, 354l.; Gibraltar, 338l.; Mecklenburg, 307l.; Mexico, 260l.; Turkey, 200l., and various other places—making a total of 11,560l. The quantity of foreign iron retained for home consumption was 17,331l., and the duty received thereon, 1743l. 16s. 6d.

British Iron exported was as follows:— Total Tons 23,869 464 257 £28,891 0 8

Countries.	Pig.		Bar.	Bo	lt& R	od.	Cast.	. 1	Vroug	ht. Ur	wr. Stee
Russia Tons	2854		26815		37		3536		2540		409
Norway	1269		65		121		207		563	*****	14
Denmark											
celand	12928		-		_		-		3		-
Prussia	102		4978		264		4	** **	805	*****	61
Oldenburg											
Hans Towns											
Holland	22901		6936		298		294		5663		921
France	7695		767		212		14		1329	** ** **	54
Portugal, Azores, &c.	629		3449		2270	***	51		2476	*****	2
spain and Canaries											
taly	5200		31794		2813		4198		5180		114
Turkey											
East Indies	850		13545		1664		443		5809		60
China	516	****	489	****	1354		15		191		1
ZUSERHINE				****	64		571		2618		58
anadas	4248		9277	****	80		2593		6966		129
Vest Indies	140		5638		13		1948		4101		13
Inited States	1704	****	162057		264		1296		15931		4607
Frazil				***	16		783		2494		36
hill	154		3481		20	****	119		716		1
ети					17	****	357		276		12
falta					138		7		360	*****	. 5
reece				** **	371	****	1		581		1
gypt									349		1
frica	_		1107				150		792		-
ape of Good Hope	-	****	1133		11		218		1491		- 8
undry places											

Total Tons 175,650 32,135 17,554 19,371 76,365 Tetal.... Tons 175,550 32,125 17,554 19,371 76,365 61,913

There was also exported 1913 tons of iron wire—of which 424 tons went to the Hans Towns, 350 tons to the United States, 239 tons to Belgium, 214 to Russia, 153 to Spain and the Canaries, 105 to Holland, and the remainder to sundry places. Of old iron for manufacture, there were exported 7241 tons—of which 5890 tons went to the United States, 604 to Italy, 522 to Prussia, and the remainder to sundry places.

Of British Hardware and Cutlery, the exports amounted to 18,105 tons, of the value of 1,860,150£, the principal countries being America, 7108 tons, value 777,964£, Canada, 1048 tons, value 95,966£, East Indies, 824 tons, value 92,435£; Hens To.rns, 640 tons, value 82,030£, Australia, 781 tons, value 79,103£; Brazil, 1144 tons, value 73,473£; Russia, 487 tons, value 61,664£; France, 361 tons, value 51,584£ foreign West Indies, 724 tons, value 48,590£; Holland, 303 tons, value 40,20£, &c.

British Machinery and Millwork exported amounted to 817,656£ Rus-

British Machinery and Millwork exported amounted to 817,656*l.*, Russia taking 212,712*l.* worth; Spain and Canaries, 98,143*l.*; Italy, 83,561*l.*; Hans Towns, 58,128*l.*; France, 35,198*l.*; Brazil, 29,201*l.*; Holland, 27,611*l.*; East Indies, 26,997*l.*; Turkey, 26,124*l.*; Mexico, 25,807*l.*; Java, 21,285*l.*; Egypt, 20,143*l.*; and the remainder to sundry other places.

Something like authentic information from California may now be considered to have been received, the Times having, on Wednesday last, published a communication from its "own correspondent," written in the streets of San Francisco, and which details contain a description of the character and habits of the people, the prospects of the emigrants, prices of provisions, necessaries, &c. The only novelty about this document, however, is, that it singularly confirms all previous reports, and proving with how little adulteration or exageration original accounts have travelled from the far west. The outrageous charges for rents; the hotel realizing a rent of 15,000.4 a year; 1504. per month being paid for a small room for a counting-house; the enormous price of some provisions, and the moderate cost of others; the losses likely to be sustained by most shippers, from a complete glut of many descriptions of goods; and the state of things at the diggings, all as given in straggling intelligence across a wide desert continent and the Atlantic, are singularly confirmed by this document. The proportion of people of peculiar countries is interesting. Out of a fleet of 103 sail, lying in the harbour, 39 were Americans, 22 Chilians, and 9 British, the remaining 33 being from various nations—inducing the opinion that a considerable majority of the populace are of the Anglo-Saxon race; while it is probable one-fifth of the whole are Chilian and Peruvians, roused by a national hankering after gold dast and the placer, from that listlessness which, under general circumstances, mark their character.

Just also, as we depicted months since, this correspondent confirms the fact, that there is absolutely no Government, no legal administration of fact, that there is absolutely no Government, no legal administration of

stances, mark their character.

Just, also, as we depicted months since, this correspondent confirms the fact, that there is absolutely no Government, no legal administration of justice, even in San Francisco; and yet from it we learn that merchandise of all sorts, furniture, liquors, and provisions are fully exposed night and day, on the quays and in the streets, for want of warehouse rooms, and yet no robberies take place, except in solitary instances. At the diggings a sort of code of honour is understood, by which the utmost hermony prevails, and although generally composed of hardy, bold, and reckless adventurers, one man does not encroach on his neighbour's washing ground, though is may be richer than his own. "Robbery is almost unknown, and

having buried his gold in his tent, he leaves his clothes, provisions and goods, with no other cafeguard than this good faith among his fellows.

There is, however, doubtless an understood summary proceeding of Lynch law at bottom, which persuades all that it is more prudent, safe, and economical in the end, to wash for themselves, where there is pleny for those who will work, than to encroach upon the property of others. Our general remarks on the difficulties attending the gold-seeker are more fully confirmed; it is only those who have been used to laborious occupation in all weathers who will stand any chance of realising riches in California. The hardy "navvle," the Irish labourer, and such robust contitutions, may struggle through months of toil; but to the artizan, or mechanic, who has been used to a sedentary life in-doors, gold-seeking offers but a poor recompense. In our last intelligence from California, in another column, we have given some extracts from a letter by a substantial gold-seeker, which are interesting, as showing the exact nature of the difficulties to be encountered, and which letter bears the stamp of authenticity.

THE BLOWPIPE—IMPORTANCE OF SCHOOLS OF CHEMISTRY,

The rapid strides which the science of chemistry has taken within the ast half century, and the still improved facilities for its study which have tarted up within even the last dozen years, is showing a marked effect, no only upon our manufactures, but even in the conversation and turn of mind remarkable in the rising generation, and the middle classes of society. From the artisan to the peer all are aware, in some degree, of the beautifully minute, yet important, changes which are constantly taking place in all organic matter; of the fact that by the aid of this sublime physical study

minute, yet important, changes which are constantly taking place in all organic matter; of the fact that by the aid of this sublime physical study the most delicate of these operations of Nature are laid open to our view, and that by the knowledge thus acquired the most magnificent improvements in the arts and manufactures have been perfected. Even the peasant at the plough is now aware that in turning up the sod he is preparing a great chemical apparatus, by which the seed he sows shall be enabled to fructify and produce fruit in the greatest abundance, in proportion as he supplies the soil with the necessary aliment peculiar to the nature of the plant. Mechanics' institutes, scientific institutions, and an abundance of cheap literature, have done much to advance this desirable knowledge, but as more particularly appertaining to the higher walks of chemistry alone there can be no doubt that the Royal College of Chemistry, London, presided over by Prof. Hofmann, and the Liverpool College of Chemistry, founded and conducted by Dr. Sheridan Muspratt, has been, and now are, assisting the advance of the science more in months, than was in the early part of the present century accomplished in years.

Dr. Maspratt was the translator, in 1844, of Plattner's profound work on the blow-pipe, which had obtained such high reputation on the continent; and the opinion that it would be highly acceptable in an English dress, was soon found a correct one, from its having become a standard work of reference in every laboratory in the kingdom, as it had been previously in the German language in Europe. We have now before us a second edition, appropriately dedicated to Liebig, of whom the editor was a pupil. In his preface to this edition, Dr. Muspratt informs us that he daily witnesses the truthfulness of the results of blow-pipe, operations by his students, who, before dissolving a substance for analysis in the humid way, ascertain its comportment before the blow-pipe. This operation enables the mere beginner to discover the pre

Plattner, Liebig, and Muspratt, enables them to detect subsigness in a body under examination, which might often be overlooked by either of the other known processes.

To those who would study the practical use of the blowpipe, we cannot do better than recommend this important work, in which every chapter of the first edition has evidently undergone the most considerate revision, all new minerals noticed, and every improvement likely to be of use to the student or philosopher has been introduced, either in notes or incorporated in the volume. There is a preface to this edition by Liebig, in which he says—"Dr. Sheridan Muspratt's translation of Plattner's excellent treatise on the Use and Application of the Blowpipe, has been exceuted with fidelity and ability; and I consider its publication in England will be of essential service. This instrument is of the highest advantage to the chemist, geologist, and mineralogist, as a means of ascertaining with the greatest accuracy, in a few minutes, all the constituents of a mineral." To return to the Liverpool College of Chemistry; it is highly gratifying to be able to state that, although established scarcely a year, it has been productive of the most satisfactory results. Numerous young men are availing themselves of its advantages; and, in May last, quite a sensation was caused in the lecture room of the Chemical Society of London, on the reading of two papers by pupils of the Liverpool College—one "On the sulphites of potassa, chromium, lithia, and bismuth," by Mr. J. Danson; the other, "On a Singular Substance resulting from Cloves," by Dr. Robert Scott. The advantages from such an institution cannot well be over-estimated; and while we have had a Davy in Cornwall, and a Dalton in Manchester, it is probable an equally bright halo will, at a future period, encircle the name of Muspratt, of Liverpool.

SHREWSBURY AND BIRMINGHAM RAILWAY. . It will be in the recollection of our readers, that some time since Mr. Gesch, of Birmingham, made a charge against Messra. Thorneycroft and Perks, of Wolverhampton, and Mr. Knox, the secretary, with co-operation, that they as members of the carriage committee of the directors, with a view to their own gain, had induced the other members of the committee to fix on a description of iron for axies and tires, involving an outlay on the part of the company amounting to 6891. 11s. 8d. on the contract entered into, beyond what whele and axies equally efficient might have been supplied for. Upon this grave charge, the directors immediately appointed a committee of inquiry, who thoroughly sifted and investigated the matter, and so completely unfounded have they found the charge, that they thus express themselves in the report:—"The charges against the secretary of co-operation with Messrs. Thorneycroft and Perks, and the other charges by Mr. Gesch, of unfair influence against competitors, were so satisfactorily refuted, that your committee consider it unnecessary to burthen their report with any matters except those pertaining to the main charge against Messrs. Thorneycroft and Perks, which has been already stated." It appears by the report, that in every case the axies and tires were to be made of a superior iron, the higher market value of which exactly made up the difference in the amount complained of by Mr. Gesch, who, it appears, is by no means a disinterested accuse, having an eye to business himself. It seems he wrote to the committee, offering wheels and axies at 5f. per set less than the contract, thus saving 1250f.; but, when questioned, he admitted that the tires of the wheels would be not of best cliarcoal, but of Parkgate lead, which Iron has been condemned by the railway commissioners. The half-yearly meeting of shareholders was held last week, when Mr. Thorneycroft retired from the direction, to give the shareholders an opportunity to express an opiown gain, had induced the other members of the committee to fix on a descrip meeting of shareholders was held last week, when Mr. Thorneycroft retired from the direction, to give the shareholders an opportunity to express an opinion, when, on his nomination, he was unanimously re-elected. Mr. Geach appearing determined to charge somebody with malpractices, moved for a committee, "to inquire into all matters connected with the past and present management of the company." This the directors directly opposed, as being no more or less than a vote of want of confidence, and eventually the following motion of Mr. Slaney was carried: —"That a committee of proprietors he appointed to consider the points stated by Mr. Geach as to the contracts, and also the questions relating to the inaccuracy of the dividend warrants." This charge of Br. Geach is, that Mr. Knox (the secretary) kept back the notices for tenders for working the line by contract, in order to favour certain parties, which charge has been disposed of by a committee of directors, as stated above.

The Use of the Blowpipe, in the Qualitative and Quantitative Examination of Missivala, Ores, Farnace Products, and other Metallic Combinations. By Professor Plattnessessy master at the Royal Freyberg Smelting. Works. Edited, with emendations, by Discridan Massivatt, problems of the Liverpool College of Chemistry, author, of Outline of Qualitative Analysis, for the Guidance of Students of Chemistry, &c. With a profess plant Liberty. Beard Liberty and Company of Chemistry. Co. With a profess plant Liberty and Chemistry. Beard Chemistry. Beard Children and Chemistry. When the Chemistry of Chemistry and Chemistry of Chemistry. Beard Children and Chemistry. The Chemistry of Chemistry of Chemistry. When the Chemistry of Chemistry of Chemistry. The Chemistry of Chemistry of Chemistry of Chemistry. The Chemistry of Chemistry of Chemistry of Chemistry. The Chemistry of Chemistry of Chemistry of Chemistry of Chemistry of Chemistry. The Chemistry of Chemistry

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RAILWAY AND COMMERCIAL GAZETTE.

ANTHRACITE IBON MANUFACTURE OF AMERICA.

In the last Number of the Journal of the Franklin Institute of the State of Famesphunds, there is a paper, by Mr. E. Bairbairn, on the improvement in the manufacture of iron by anthractise, containing some interesting statistics, showing the rapid strides which the tron trade has made in this country in spite of many natural disadvantages, as relates to the quality of the ironatone, and that our trans-Atlantic neighbours have not, in the manufacture of iron, pursued that go-a-head system, which characterises most of their pursuits. In the course of his remarks, he abserves that, by the discovery of world in a consequences, Socialed has become the country in which one-fourth of all the iron consumed by all nations was manufactured in 1848. From the comparatively small quantity in 1856 of 44,000 toos, her manufactures in 1848, a short period of 12 years, was 650,000 toos; the invention of Mr. Neilson having overcome the inferior quality of the coals of the Cityde district, and unking known that Lanackshire, famous but a few years since only for its Eloh Roy, is now best based on the control of the country, possessing only a stubborn silicious manufactures of the United States than Scotland; while science appears to have been at a standatiff, they being undersold by the pig-iron of Socialed, and the bar-iron of South Wales; and yet Wales is an inferior country, possessing only a stubborn silicious enchoance of ron, and making from the substantial of the country of the property of the property of the property of the country of the work of the country of the substantial property of the property of the country of the country of the country of the country of the property of the p ANTHRACITE IRON MANUFACTURE OF AMERICA.

American Steel.—The United States has always been dependent on other countries, mainly on England, for its supplies of cast steel, and the better qualities of sheer steel, and as the consumption of these articles in this country is immense, and is rapidly increasing, the importance of producing them within ourselves is apparent. Many attempts have been made to that end, but all have proven abortive, mainly, it is believed, for want of an American iron possessing the peculiar qualities for that purpose. The Adriondac Iron and Steel Manufacturing Company has now succeeded in producing these important articles, from American Iron, of qualities of peculiar excellence—superior, it is believed, to that imported. The steel works of the company are located at Jersey City, N.J., and are under the superintendence of Mr. Joseph Dixon, well known in this country for his science and inventive genius. They are now in successful operation on a moderate scale, and by extending them, and at the same time enlarging the works at which the iron is made, the production might be so extended as to meet the entire wants of the country, and supersede importations altogether. The iron works of the company are situated among the Adriondac mountains, on the western borders of Essex county, N.Y., where the ore from which the iron is made (the magnetic oxide), is found in immense quantities, and where extensive and densely wooded forests surround them on every side, affording a supply of wood for charceal, for reducing the ores, for a long series of years. The superior qualities of this over the imported steel are owing, it is believed, to the fact that it is made entirely from an iron which is admirably adapted for the purpose, without any mixtures of others which are not so adapted, and which can be obtained for about one-third of the price of genuine steel iron.—W. R.: Journal of the Franklin Institute.

BRITISH GOLD. - Under this title we are not about to describe the really preclous metal of this country, or the products of a home California; but simply an ingenious and interesting discovery in the manipulation of metalliferous substances, by which an alloy is produced that is likely to come into very general use for numerous articles hitherto manufactured in gilt work, ormole, and other more expensive metals. It is a mixture in certain proportions of copper, tin, zinc, &c., perfectly homogenous, close in texture, highly ductile, rolls into sheets, and is manufactured with the greatest facility. It can be had of various tints, to represent gold of different degrees of colour and purity, takes a high degree of polish, and cleans easily when tarnished. We have inspected some small articles, pencil cases, &c., manufactured from this alloy, and it would indeed be difficult for the most practised eye to discover they were not gold, without having recourse to the steld test, or ascertaining the specific gravity, which is, of course, less than the precious metal. The patentee is Mr. M. Stirling, whose advertisement for his patent toughened cast-iron appears in another column. al of this country, or the products of a home California; but simply

Electric Telegraphs in India.—We understand that Mr. Whishaw, who has lately examined the system of telegraphs adopted in Prassis, to the extent of 1200 English miles, under the direction of the telegraphic commission appointed four years ago, is much gratified with the results of his investigation, as they fully corroborate all that he has submitted in favour of a simple, effective, and economical plan of telegraphs, arranged by him for the wast territories of British India, a plan which is now under the full consideration of the authorities connected with the East India Company.

Original Correspondence.

COPPER SHEATHING .-- No. XII.

COPPER SHEATHING.—No. XII.

Sir.,—Whilst waiting "Germanicus's" convenience for the requested information, we may proceed with our inquiries, addressed, with his permission, to "T. H. S.," though open, of course, to answers or comments from any other persons acquainted with the subject, as practised on the working scale. Taking, as our starting point, the date of Mr. Vivian's paper, 1823, and the summary of his process at that time, as given in yours of the 11th August, we have to collect what changes have been made since and before that time—how far likely to have affected the quality of the copper—and how they may be improved, or made to correct each other, so as to restore, or amend, the quality, and economise the process, whilst rather increasing than diminishing the products, by adapting the various qualities to the purposes they best suit, particularly sheathing. After the preliminary mixture of ores, Mr. Vivian enumerates the following series of operations:—

1. The copper ore calcined.

2. Calcined for mystel, and calcined.

3. Fine metal, from process 4, calcined.

ing the various qualities to the purposes they best suit, particularly sheathing. After the preliminary mixture of ores, Mr. Vivian enumerates the following series of operations:—

1. The copper ore calcined.
2. Calcined ore, molted.
3. Coarse metal, from process 2, calcined.
4. Calcined coarse metal, melled.
7. Copper from process 6, coasted.
7. Copper from process 6, coasted.
8. Coarse metal, from process 2, calcined.
7. Copper from process 6, coasted.
8. Coarse or bilatered copper, refined.
8. Coarse or bilatered coarse described as consisting generally of

allowed to rise?—and what the minimum, below which the smelter will not work?—and what especial injury is done to the quality by working at too high a per centage?

6. Generally, what changes have taken place in these respects at different times, or in different works, since 1823?

But sheathing copper is reported to have been, for the first five or six years, very uniform in texture and appearance, until a nominal improvement, about 1786; after which this uniformity cused, and the sheathing was found to be inferior and uncertain, the waste rapidly increasing. After this, a few years before 1800, the complaints again increased widely; and so on, before our epoch of 1823, as well as since to the present day.

Looking back, then, from 1823. Has "T. H. S.," or any other of your correspondents, the means of knowing—

1. Whother the character, dressing, or mixing, before 1786, differed considerably from that in 1823; or from Mr. Vivian's description of them quoted above?

2. Whether the "improvement" in 1786 was connected with the quality, sorting, or mixing, of the ores; or only in the process, of which we shall enquire in a subsequent letter?

3. Whether any changes in the produce and management of ores took place shortly before 1800?

And 4. Generally, whatever remarkable changes are known to have taken place, in the quality and management of the ores, from the earliest period?—J. PRIDEAUX: Plymouth, Sept. 5.

COPPER SHEATHING.

COPPER SHEATHING.

SIR,—In discussing this question, it would be far preferable that every one who takes part would keep their temper, and be as dispassionate on the subject as possible. I believe, as far as I have watched the correspondence, that it is Mr. Prideaux's object to ascertain the best mixture of ores and processes, so as to ensure a quality of copper sheathing that will wear twenty years. If so, I think the least that Mr. Prideaux could do would be to point out to the smelters the advantages they would derive from having copper of that quality. They would then unanimonaly join him in the discussion. If Mr. Prideaux be a shipowner, he would most decidedly prefer copper of the above quality; but if a smelter, he might take a different view of the matter.

I must confess that I have been a little uncourteous in not explaining to "Germanicus" (who professes to be a practical smelter of so long standing) the meaning of "surplus copper." I agree with him, that some improved method of smelting should be established; but I do not believe, "as the report says," that those who have adopted them have met with all the success they desired: I am far from believing that—although my ignorance in those matters may not be a criterion for other parties.

Noance. Swance.** Sept. 4.**

IMPROVED MANAGEMENT OF IRON-WORKS.

IMPROVED MANAGEMENT OF IRON-WORKS.

IMPROVED MANAGEMENT OF IRON-WORKS.

Sir.,—In the present state of the fron trade anything tending to facilitate, or economise time, labour, materials, or scientific operations, without lowering the price of any kind of labour or skill, has, I should imagine, a strong claim upon the serious attention of those who may be immediately interested in the success of so important a manufacture as the one alluded to. Under this impression, therefore, I venture to send you the following description of a "new and improved system of managing extensive iron-works;" in the hope it may, if favoured with a place in your scientific, impartial, and well-conducted Journal, lend to beneficial and satisfactory results. I am not so sanguine as to imagine that ironmasters generally will adopt the recommendations in question—indeed, it would be almost impossible to carry them out at many works, owing to a variety of local circumstances; but those parties who may have the courage to do so, will place themselves in positions to bid deflance to any competition, in regard to either quantity, quality, or cost, of their several finished results, if not to command the whole iron-trade of the world!

With respect to "joint-stock" iron companies, there is exceedingly small chance of their escaping ruin, if the trade continues in its present depressed state much longer, unless the system of management about to be described be spiritedly and fully carried out by the owners of them. I beg to be clearly understood, that I by no means imply by these remarks that joint-stock iron-works are under the management of incompetent or improper individuals—very far from it; because I know there are many very clever men entrusted with the management of such undertakings; but this I may venture to say, without fear of contradiction from any quarter, that neither at joint-stock, or any other iron-works, have the powers of suckes been applied to the tenth part the extent they might have been (particularly in the blast-furnace departments), for the benefit of, n

working will occupy about four or five columns of the Journal; and I will, if possible, send you a column of matter weekly, until the description be completed.—S. B. ROGERS: Nantyglo, August 29.

working will occupy about four or five columns of the Journal; and I will, if possible, send you a column of matter weekty, until the description be completed.—S. B. Rogers: Nantylo, August 29.

OUTLINE OF A NEW SYSTEM OF MANAGEMENT, FOR CONDUCTIVE LARGE HON-WORKS SCHENTIFICALLY AND BOONOMICALLY.

The following may be enumerated as a few of the advantages that may be realised by the proprietors of iron-works, fairly carrying out the proposed new system of managing and controlling their several smelting and manufacturing establishments, provided there be nothing readically injurious in their raw materials, or in the terms or conditions under which they may have engaged to carry on their several metallurgical operations—viz..

1. The real cost of all raw materials, and unfinished or finished results, may be accurately ascertained at any stage of the various operations of manufacture, and which cost may be regulated, in a manmer, at pleasure, and at all times reduced to a fair and reasonable minimum, without, however, starring the "labourers in the vineyard" on the one hand, or injuring the property of the ironnaster on the other, by what may be termed neck-or-nothing work.

2. The quality and the working value of the various raw materials, or unfinished results, and of all residiums or offel, would be clearly made known; whereby all unnecessary easte or less of yield in the several processes may be effectually prevented, and the ironmaster be insured the very best results, in yield, quality, and cost, his raw materials can produce. This is a point particularly interesting to the holders of property containing iron-making materials, especially what is termed "stone-coal property" (i. e. anthractice); and it is equally so to the proprietors of extensive peut beds, whether in England, Ireland, Scotland, or Wales: the reasons need not be mentioned.

3. All wear and teur of tools and apparatus, and the consumption of all necessary materials and labour, for duly keeping on the works, would be reduced to the least possi

MINING IN IRELAND.

and many serious evils of a commercial nature, nationally, locally, and individually.

[To be continued in mer week's Mining Journal.]

MINING IN IRELAND.

Sir,—It is very strange, but no less true, that there is still a vast amount of prejudice and disinclination on the part of Englishmen embarking their capital in Ireland, and I am completely puzzled to ascertain the cense. It is very true, in former years, that this country was distracted by political agitators, and the people led to expect the performance of political mireceles; but the bubble has burst. The country is in a state of profound tranquillity, and lacks only capital to make it one of the most prosperous and happy in her Majesty's vast dominions. What then can be, or is, the cause of the dismentation and propure exasting in the must of Englishmen that prevents their embarking capital in the development of Ireland's resources? For whether we look at her agriculture, mines, manufactures, or fisheries—a vast and ample field for the safe and profitable investment of capital—there is some cause or other at work which makes the English capitalist look with suspicion on everything Irish. Why is this? Has John Bull been deceived by Padely in mining speculations?—a re they afraid that their property and their lives would not be safe? Let them come and see for himself; before, he invests his money. Or, if Englishmen invest capital in mines of sherries are they afraid that their property and their lives would not be safe? Let them come and see for themselves; and all the prejudices of generations would dissolve like "the baseless fabric of a vision." Are they afraid that life or limb would be injured? Let them come and spy out the land; and they will find more graitude on the part of the labouring population for the means of earning 6d. a day, than in any other part of the true of the same of the same of the same state of the same st of the county of Cork would submit to starvation and death rather than do an injury to any man or his property. Surely, then, in the face of these statements (they cannot be contradicted) the fear of insecurity to either life or property cannot be the cause that prevents Englishmen investing capital in Ireland. The "Encumbered Estates Bill," and the "Plantation of Connaught," appeared for a time to be the panacea for all the ills of Ireland. Most of the estates, however, are so encumbered that they must soon change hands; and all-that is required to make these valuable is capital. But the capital is not in this country; and unless those who process; it are disposed to trust their lives and property in his country. luable is capital. But the capital is not in this country; and unless those who possess it are disposed to trust their lives and property in this country, things will continue to go from bad to worse. But is the land, generally speaking, capable of improvement? I do not mean to state that crops of wax candles are seen growing in the bogs, or that streams of vinegar are found therain; but the land is undoubtedly very fertile, and, with proper management, would yield an enormous produce; it is, therefore, a safe investment for capital. The fisheries may also be turned to profitable account; but it will require time, are, and capital to work them profitably. Those who expect to find the coasts teeming with red herrings and Newfoundland cod ready cooked, and asking the people to come and

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of Mine-Plattner, by Dr. Outlines

RAILWAY AND COUNTRICKE GAZETTE

eat them, will be disappointed; still, with judgment and strict economy, the coast fisheries of Ireland may be made a mine of vast wealth.

Last, though not least, are the mines of this great country. Why is it that they are not extensively worked? Is it because those who have made a few slight attempts have been disappointed in finding copper tea kettles and Britannia metal tea-pols ready made? or were they disappointed in not finding every lump of mundic a little California? or have they discovered a secret which they are determined the world shall not know? The secret, however, is the scant of capital, for without it the mines and fisheries, though immensely rich in themselves, are unavailable, and will remain unproductive. We have rich and fertile land, valuable mines and fisheries, and a starving but peaceable population, able and willing to work; a mild and genial climate, good roads, cheap provisions, and brought, by the aid of steam, within a few hours of London; and yet, or until the recent visit of Queen Victoria, Ireland was the ultima thule of the British dominions, and her immense resources just as much known and appreciated by the English capitalist as the exact spot where Mungo Park was drowned in the River Niger. But may we not hope that there is to Ireland "as good time coming," and that peace and prosperity will follow in the footsteps of our beloved Queen? She has set a noble example, and was not afraid to trust herself, or her Royal children, in Ireland; and shall it be said that the indomitable spirit of English enterprise shall falter, and turn back, where the Soverelga has led the way? I cannot believe it; the pondrous machine of Ireland's regeneration is ready to be set in motion; the steam ralve is not properly adjusted; it requires a slight alteration, it was machine of Ireland's regeneration?—the steam valve: the connecting-rod to the steam valve is not properly adjusted; it requires a slight alteration, illightning, and, by its wonderful elasticity and power, the immense machine is s

PREVENTION OF EXPLOSIONS IN COAL MINES.

PREVENTION OF EXPLOSIONS IN COAL MINES.

Sir,—I quite agree with the remarks of your valued correspondent, Mr. Jones—viz.: that no one system, or scientific application, can ever effect a remedy; that, in spite of all, there will occasionally be explosions; we may lessen, but we cannot remove the evil. Quite certain it is that there is no remedy but caution and efficient knowledge in the men who conducts the work, and that by men who can be depended upon. Now, I think you will quite agree with me that, in addition to the above, some sort of check upon those employed for that purpose would be absolutely necessary; and so satisfied am I that the galvanometer, or an electric alarum, placed in the manager's office aboveground, would render such a system complete, that I have turned my attention to other means, whereby the gases can be made to denote their presence with the galvanometer or the electric alarum, by the application of the barometer, pressure gauge, or other similar means, at those points where the wires lead alternately to the roof and floor of the mine. With the above object in view, I have waited upon Mr. Herapath, the result of which will be that, ere long. I shall have ready for exhibition, at the Royal Polytechnic Institution, one of the most readily adapted contrivances that can be wished for. My object in again troubling you being to secure priority to this invention, because in this age of floating patents, we know not in whom we put our trust.

Melton-crescent, Euston-square, Sept. 3.

COLLIERY EXPLOSION—GOVERNMENT COMMISSIONERS

COLLIERY EXPLOSION—GOVERNMENT COMMISSIONERS.

COLLIERY EXPLOSION—GOVERNMENT COMMISSIONERS.

Sirg.—The late explosion at Aberdare fully corroborates what I have repeatedly insisted—viz, however good be the ventilating current, if large cavities or undulations exist in the roof, or attempts be made to ventilate the stalls, by bringing the light gas downwards, instead of providing means for its upwards escape, and keep the old workings free from accumulations, by separate channels, fiery collieries must necessarily remain in danger. Lately, in a colliery, near Workington, they have employed pipes to take away the carbineted hydrogen from a vice in the workings, near a dyke, with great success. The accumulation of the gas in the rise so adulter ated the return air of the pit, as to have rendered it quite unsafe for the men to pursue their labours. I could note numerous other similar plans often applied to particular cases, not alone in England, but on the continent and America. In Prussia, their system of working the seams, and mode of ventilation, render the air in the collieries as good as it is in copper and lead mines. An increased dip, instead of increasing the difficulty, as some fancy, favours the means of ventilation, if the workings be carried on properly, adapted to such inclinations. Very ordinary and imperfect methods of ventilation may serve to work on the crop, and more especially if the seams be intersected by an impermeable fault beyond the working range down the foul air to lower levels, instead of providing for its escape upwards, is unsafe, and should be gradually corrected. Notwithstanding the observations of some of the northern viewers, I am still of the same opinion, that simple suggestive measures, &c., as a beginning, will do more good than compulsory powers; and my recent inspection of some collieries in Wales strengthens my conviction. I know, from long experience with workmen and agents, the local prejudice which often blind them to what may be good in other districts; it is difficult to select an impartial person, free from local p

I was somewhat surprised, when on Lord Wharncliffe's committee, to find those who made the most stir on the necessity of compulsory powers, and other impracticable and complicated interference, the most unsatisfactory in evidence. Almost every viewer took a different view of the question—interested motives and prejudice often predominating over philanthropy. In short, the committee found the subject so overwhelmed with contradictory evidence, that the result of the inquiry proved very different to what their lordships anticipated. It was made evident that a viewer, from any particular district, was not so suitable for an impartial inspector as other scientific men; and I am happy to observe the modified tone of some of your correspondents, and to see also such a sensible letter in your last Number, from Mr. Jones, Blaenavon, on this point, and your observations thereon. I was somewhat surprised, when on Lord Wharncliffe's committee, to find those who made the most stir on the necessity of

sible letter in your last Number, from and your observations thereon.

Let all proprietors keep correct plans and sections of their underground workings, and let them adopt any system of working they please, with this proviso, that they adopt such means as will avoid accumulation of the inflammable gas, by a free ascending passage. All other extra ventilation may be left to their own discretion, as the former will remove all danger from explosion. Were the above established, a few inspectors and few accidents from explosions would occur.

lation may be left to their own discretion, as the former will remove an danger from explosion. Were the above established, a few inspectors would do the work, and few accidents from explosions would occur. In the event of any difficulty in the way of establishing the necessary ascending or exhausting means of taking away the gas, real or apparent, and that it was allowed to accumulate in recesses, public notice should be given to the colliers, acquainting them of the danger of working in such

mine.

Indeed, the mere attending the inquests, and examining witnesses, with the plans and sections, and the influence of public opinion, will be the means of checking very considerably these accidents. I have been lately inspecting some of the collieries in this neighbourhood, and had the advantage of conversing with the men, and in their own language; I, therefore, speak from experience what can be done. I am fully satisfied that the simple suggestive measures, with constant watching, will effect the object in view, and without, in the least, interfering with the principles of private enterprise and individual responsibility, so essential to the prosperity of rprise and individual responsibility, so essential to the prosperity of country.—Evan Hopkins: Cardiff, Sept. 3.

VENTILATION OF COAL MINES.

VENTILATION OF COAL MINES.

Sir.,—Notwithstanding the very summary way in which your correspondent, "Black Diamond," disposed of the plan of ventilation of mines by "propulsion," as proposed a few weeks ago, in your Journal, by "O. N.," I cannot but think that the plan is worthy of a little more consideration. I would ask, is "Black Diamond" quite certain that, in the usual method of ventilation by exhaustion, the atmospheric pressure is not diminished in the galleries of the mine? But whether it is, or is not, there can, I think, be no question that the exhaustion in the upcast shaft, however it is produced, will tend greatly to facilitate the extrication of the gases from the "blowers" and crevices of the mine; but if the system of ventilation

by "propulsion" be adopted, there will necessarily be a condensation of the atmosphere of the mine, before circulation of the air can take place, which will tend greatly to diminish the escape of the noxions gases. The increased density of the atmosphere of the mine will add considerably to the physical energies of the workmen, enabling them to perform more work in a given time, and increase their carnings without any advance of their wages. The diminished extrication of the deleterious gases will also give the men a more pure and less enervating atmosphere to breathe in than now too seldom falls to their lot; and the risk of explosion will be very much diminished, if not entirely done away with. That such will be the effect admits of no doubt, when we recollect the effects of compressed air in preventing the water and quicksand from running in upon the workmen when sinking through a quicksand lately, in France, where the condensation of air in the mine was equal to three or four atmospheres. At any rate, I think the plan is worthy of serious consideration, and could be easily tried, at very small expense, in collieries that are already ventilated by mechanical means; if it be practicable (and I see no valid reason why it is not), the advantages every way will be very great. Luson.

ON EXPLOSIONS IN COLLIERIES.

ON EXPLOSIONS IN COLLIERIES.

ON EXPLOSIONS IN COLLIERIES.

Sin,—The very frequent recurrence of those frightful explosions, of which some fresh horrifying details appear almost weekly in your valuable paper, render it a duty for every one to offer any suggestion that may tend to diminish the alarming sacrifice of life, and the consequent destitution of the multitudes dependent on the labour of the sufferers. It appears that little or no benefit is likely to accrue from the appointment of commissions of inquiry, which, in all probability, will end in inquiry, and nothing more. The only sure way to put an end (as far as human ingenuity can do) to these dreadful explosions, will be to lay the responsibility on the right shoulders—on the coal proprietors themselves; touch them in in the only sensitive part about them (the pocket), for I fear

"There is no flesh in (their) obdurate heart—

There is no flesh in (their) obdurate heart. It cannot feel for man;" "There is no flesh in (their) obdurate heart—
It cannot feel for man;"

and I guess there would be much less cause of complaint about inefficient ventilation, falls from imperfect timbering, defective chains and ropes, and the like. If an Act of Parliament were passed, making it compulsory on the coal proprietor to make compensation to the maimed, and to support the widow and orphans of those who were killed by colliery accidents, there is little doubt that every contrivance that ingenuity would devise would soon be called into operation; and although inevitable accidents would now and then occur, in an occupation always fraught with so much danger, they would, doubtless, be comparatively "few and far between." Whilst the railway companies and coach proprietors are liable to make compensation for injuries to their passengers, even though those injuries occur by inevitable accident, why should the colliery proprietor—on whose care and precaution the lives and safety of thousands depend, and which rely so exclusively on the necessary care and precaution being taken, but too often shamefully neglected—expect to be exempted from the same responsibility? And let the different officers of the colliery be amenable to the law for accidents which can be proved to have occurred from their negligence of duty, as railway drivers are; and I think we should find them a little more careful than, from the evidence adduced at some late inquests, they appear to have been.

Although I have not the vanity to suppose that the plan I have here

legigence of day, as ranway drivers are; and I mink we should find them a little more careful than, from the evidence adduced at some late inquests, they appear to have been.

Although I have not the vanity to suppose that the plan I have here proposed has much chance of being adopted at present, as I opine that those who roll in the wealth extracted from the bowels of the earth, at the expense of the health, strength, and, alas! too often, of the lives of their fellow-men, are not yet prepared to forego even a small portion of their great profits, to secure the comfort and safety of those on whose exertions their wealth depends; and their power and influence is far too great amongst our present rulers to admit of the chance of compulsory legislation; yet the time is not far distant when even they must succumb to public opinion, and act with greater attention to the safety of the men whose lives and limbs have been too often sacrificed in their service, and also with a little more humanity towards the widows and fatherless, rendered such by their neglect.—Lusor: Sept. 4.

A FEW WORDS FOR THE CONSIDERATION OF COLLIERY

the more humanity towards the widows and fatheriess, rendered such by their neglect.—Luson: Sept. 4.

A FEW WORDS FOR THE CONSIDERATION OF COLLIERY SUPERINTENDENTS.

Sig.—The old provers, "when their on is hot, then is the time to strike it," reminds me that there must be a fiver sime for me to make a few remarks upon an important maked lights are disused in all collieries (with very few exception) and their sime for me to make a few remarks upon an important maked lights are disused in all collieries (with very few exceptions occur," which I have advanced in the Mining Journal and elsewhere the subject so momentoe, the is in any appear, yet its irrue (alas) that nearly two hardyd souls have perished this present year by explosion alone. Now, for my own part (whatever some may think), I consider the subject so momentoe, that is longht not to be trifled with, and do, therefore, offer my remarks that all seriousness, and would wish them to be noticed in the same spirit.

The subject is complex or simple, according as the point of view is placed. It is complex, when considered with regard to containtion, but exceedingly simple when viewed (as I view it) with reference to lighting the but two modes of lighting a pit, either with maked lights or with a soft lighting a pit, either with maked lights or with a soft lights and from the uncertainty which is tho best; whereas their lights, the but with the majority of your correspondents, unlike most newspapers, nullike most lights and from the uncertainty which is the best; whereas their lights, and from the uncertainty which is the best; whereas their lights with two modes of lighting a pit, either with maked lights or with a soft lights with two modes of lighting a pit, either with maked lights or with a soft lights with two modes of lighting of conditions and the symmetry of the light lights with the light lights of the light lights of the light light lights and light light

EXPLOSIONS IN COLLIERIES.

EXPLOSIONS IN COLLIERIES.

SIR,—When I first addressed you upon this painful subject, I was deeply impressed with the incalculable misery produced by such frequent and melancholy calamities—having from time to time, as they occurred during a period of very many months, devoted my thoughts and energies to the subject, with a fervent hope to surmount the difficulties, and to devise a means of prevention; and I had reason to believe, from the confidence reposed in the reports of the various committees of inquiry, that any suggestion bearing the semblance of improvement, or conducive thereto, would, at least, have been courteously received by those under whose management these appalling catastrophes have taken place, and upon whom, to a great extent, depends the preservation, or sacrifice, of so vast a number of human lives.

gestion bearing the semblance of improvement, or conductive unavive, would, at least, have been courteously received by those under whose management these appalling catastrophes have taken place, and upon whom, to a great extent, depends the preservation, or sacrifice, of so vast a number of human lives.

I, therefore, with humility and deference to them, and the most scientific amongst those engaged in mining pursuits, publicly submitted my project for their information and opinion, relying upon an impartial judgment, and cherishing the hope that it would ultimately tend to avert the evil, and thereby benefit employers and employed; but the manner in which my good intentions have been appreciated is to clearly demonstrated in rear columns to admit a doubt as to the animas and ill-will engendered, to the disgrace, it which my good intentions have been appreciated is to clearly demonstrated in rear columns to admit a doubt as to the animas and ill-will engendered, to the disgrace, it engentered in the columns of the columns of

arready taken place; and, with the biessing of the provision of the profession should see commit himself, and of which your readers have now, unfortunately for him, ample evidence. Is Dr. Robinson so profoundly ignorant of the fact, that no safety-lamp heretofore projected can have during use, for one moment, any quantity of fire-damp within it; nor did even the most foolish of projectors of safety-lamps ever contemplate such a thing, till Dr. Robinson imagined that such might possibly occur. The doctor promises that he will proceed further in experimenting upon this subject, and that he will produce a safety-lamp of his own devising. Estimating the probable value of the said boon, I cannot resist quoting from what we have read, the old adage—

Parturiant montes, nacetur riduculus mus.

I will end with Dr. Robinson with another adage—

Nous devons faire à atrait ce que nous roudrions qu'on nous fit.

Having proceeded so far, I will now offer a few remarks on the history of safety-lamps, which, at the present time, may not be unacceptable to your readers. I am well aware that I am walking upon delicate ground, but during my lifetime it is needful that facts upon this subject should be laid before the public, and which, I will venture to remark, cannot be refuded.

Sir flumphrey Davy knew the world, and frequently took credit to himself whenever the thought it needful, which caused him some disrespect amongst men of selence, especially in regard to lights for coal mines, upon which subject he did not escape censure. Dr. Dalton, of Manchester, was the first who determined the composition of carbonards, a.D. 1811. My late lamented friend, Dr. Henry, of Manchester, corrobonated and the subject he did not escape censure. Dr. Dalton, of Manchester, was the first who determined the composition of carbonards, a.D. 1811. My late lamented friend, Dr. Henry, of Manchester, corrobonated in the country of th

takes no notice of these remarks, in respect to his friend, Sir H. Davy, much to his honour. It is here needful that I give a few lines that I have translated from the great work of the first chemist of the age, as preliminary in respect to the safety-lamp of St H. Davy, or 'the Davy,' as the late Mr. Buddle designated it. I will give a translation from Baron Berzelius's Traile de Chemie, A.D. 1833:

"In 1816 the celebrated Davy directed his attention to the discovery of a process for prevention of explosions in coal mines. He commenced for that purpose in observing a fact which was discovered by the English chemist, Tennant—viz., that explosions of carburetted hydrogen are not propelled through metallic tubes of very small diameter." When we have digested this information, I will proceed to narrate further facts in respect of Sir. H. Davy's conduct to myself; and, although an humble individual, I never at any time would have exchanged positions with him, especially in regard to safety-lamps. I showed to Sir H. Davy, as Dr. Gray's, formerly rector of this parish, my original safety-lamp, which he commended before a large party. At that time I supposed him to be a man of honor. Sir H. Davy, as Dr. Gray's, formerly rector of this parish, my original safety-lamp, which he commended before a large party. At that time I supposed him to be a man of honor. Sir H. Davy experimented upon the said lamp, by my permission, and some person of which observation be disapproved; but behold, when he arrived soon afterwards in of my safety-lamp, which he designated the "Safety-lamp," the "Bowing-lamp," the "Bowing-lamp," the "Bowing-lamp," in the whole of these initiations of my original safety-lamp, in the parish of the disapproved; but behold, when he arrived soon afterwards in "Piston-lamp," and the "Charcoal-lamp," (vide Dr. Paris's Life of Sir H. Davy, p. 313, for supplied the air by pistons. In three of them lie comployed of lawps, and in the fourth Paris (Life of Sir H. Davy, fol. 307), when alluding to the Society for Pr

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The ontheasem of Sir H. Davy's presidence at Dv. Beddoc's, as its operative chemic, and the program of the present time. It will merely sensetion that the late Earl of Durbam (then J. Justice), during fix H. Davy's residence at Dv. Beddoc's, as its operative chemist, and the pushes greateness were on them to remain the program of the progr

THE SEWAGE OF LONDON.

THE SEWAGE OF LONDON.

Sin,—Letters have appeared in your paper for two consecutive weeks, upon the necessity of improving the sanitary and sewage condition of London. I agree with the main tenor of "C. E." letter, which, in my opinion, contains much matter in a few words, and I am in consequence induced, and anxious to add my little endeavours to the realization of so benevolent a scheme, as the supply of an unlimited quantity of good and wholesome water to the inhabitants of London. The matter is one which has engrossed much of my attention for a long period, and after arranging in my mind various phaus, each has succumbed to the one which I shall describe, after giving a few particulars relative to the present source of apply, and then remarking on the inefficiency of plans which have from time to time been proposed for this object.

The metropolis is now supplied by eight water companies, six of which draw their water from the Thames, from whence it is pumped into reservoirs, here it is allowed to subside and filtrate, but this process is only so far effective as to retain organic matter and large substances, for, it is obvious that it cannot purify water which is diluted with the excrementious and filthy contents of all the sewers, the putriscent matter from hospitals and slaughter-houses, the ejectiments of chemical works, and the many manufactories which wall its banks; and this insalubrious solution is only sintedly supplied to the public at an enormous charge. The crils concomitant on the use and consumption of such a fluid must be numerous, and must also fasten themselves more particularly to the poorer class, whose limited means are restrictive to the purchase of a sufficient quantity of this indispensable article, and it requires no argument to prove that many of the diseases peculiar to the lower orders spring therefrom.

Several plans have been proposed for improving the supply, such as to form new companies, to draw water from a higher point of the river; but the injudiciousness of this is appare

form new companies, to draw water from a higher point of the river; but the injudiciousness of this is apparent, when it is considered that the river is polluted by the excretions of various towns, villages, &c., on and contiguous to its course.

Another suggestion has often been made to sink Artesian wells, but on the authority of Dr. Buckland, and others who have devoted some consideration to the chalk basin of London, it is pronounced to be inadequate for anything like the required wants; and this is evidenced by the few wells already sunk, which are also capricious in their yield, for it is not a matter of unfrequent occurrence that the supply fails, and in the London breweries they are compelled to accommodate each other, by not drawing their water at one and the same time; besides, the nearest point to which water has risen in them is 50 feet from surface—consequently this, as well as any plan of taking it from the Thames, would require the intervention of mechanical power to deliver it to the consumer, and thereby entail him with a perpetual expense to support it, which is objectionable, if it can be in any way removed. The plan which I will now briefly propose will, I believe, do it. Let a reservoir, or reservoirs, be placed in the vicinity of the metropolis, at an altitude equalling the average height of domestic buildings; from the reservoir carry pipes into the country, in such manner as to have the principle of a syphon. Let streams from never-failing springs be conducted by open water-courses to them, and let the pipes be of such diameter, as to give 10 gallons of water per diem to each individual. It will be seen that this plan has the advantages of being self-acting, requiring not the least machinery—consequently liable to no derangement, and possesses the important requisites of certainty and cheapness of supply. From calculation, I find it could be constructed, to supply two millions of people, for 18,000£ per the humbination to competent men; when completed, a body of officers might be constit

now made. These companies have their dividends to make, and would strenously oppose any scheme likely to affect them; but the people should be shown the evils in the existing state of things, and be brought to solicit the interference of the Legislature in the matter. In the meanwhile, Mr. Editor, you ought not to be idle, but attend to the suggestions of "C. E.;" and, after selecting a plan, arge it uneasingly until it is accomplished. I am anxious, Mr. Editor, to see this, or any other equally effective and cheap plan, carried out; for it is high time to give the population of our dense cities something more than the filtration of a slimy and fetid fluid for drink, if we intend to keep down the per centage of mortality.

Goulgresse, Sept. 6.

JOHN DARLINGTON.

SCOTTHORN'S ROTARY ENGINE.

SCOTTHORN'S ROTARY ENGINE.

Sir.—Being absent from town, I did not observe the communication of "Iron" in time to answer it for your Number of this day, and my inability to refer to the works mentioned by him, so as to point out the distinctions between the inventions of Flint, Wilcox, and Scotthorn, precludes more than a passing remark at present. However, I think I may unhesitatingly allege that the opinion of "Iron" has been expressed with a great want of caution. I distinctly recollect that in forming an opinion on Mr. Russell's brechure, on the Fallacies of the Rotary, I had under my consideration, amongst others, the two inventions referred to, which are identical with Scotthorn's only so far as they are of the same class—i.e., revolving pistons. I fear not to assure your correspondent, that he will find his statement, which implies that the practical objections to the soundness of the principle of the two earlier engines prevails in Scotthorn's case, is erroneous. In pronouncing the arguments of Mr. Russell, as well on the subject of rotaries generally, as on the crank, inconclusive, and founded upon mere theory, unassisted by practical information, I likewise observed them from adoption.

I do not wish to occupy your valuable space with vague allegations, but if you will permit me, I shall return with greater certainty to the subject when I have an opportunity of referring to the diagrams of the rival inventions; and in the mean time I take the liberty of suggesting to "Iron" the propriety of more careful examination of the details of the three inventions, and retracting, if he justly may, his hasty assertion. Probably, "Iron" may have been misled by the similarity of certain parts, but which, in Scotthorn's invention, have been executed so as to meet the practical difficulties, and deserve the credit of originality.

Englineer.

Hell men abligate was the propriety special and the practical difficulties, and deserve the credit of originality.

Englineer.

THE BRITANNIA TUBULAR BRIDGE.

difficulties, and deserve the credit of originality.

Reading, Sept. 1.

THE BRITANNIA TUBULAR BRIDGE.

Sir,—Will you oblige me with space in your valuable Journal for a few remarks with reference to that unique undertaking, the great "tubular bridge?" I have no doubt the readers of your useful columns would, with myself, regret the accident to the great hydraulic press, and the consequent delay of the consummation of that stupendous undertaking. That the means used for raising the tubes are quite adequate to the task assigned, I think no one acquainted with mechanics will doubt for a moment; but now there is just ground to fear that a similar misfortune may befull a second or third cylinder, which, of course, would greatly retard the work. I feel sure that the worthy son of the great George Stephenson will pardon an humble individual for suggesting that the four great tubes might be safely placed in their respective destinations before it is possible to have the hydraulic cylinder replaced—viz: by means of tidal power.

The plan I propose is to place pontoons, or dismasted ships, under the ends of the tube at low water, on which suitable scaffolding, abutting under the tube, should be erected; it will be evident that, as the tide flows, the tube would rise. If we reckon the difference between low water and high water at 20 ft., and allow 5 ft. for extra draught of pontoons or ships, from the burden of the tube, it would give 15 ft. per tide; 15 feet being added to the scaffolding, or abutment, at low water, another lift might be taken, and so on, until the tube reached the desired elevation. By this means the great expense of constructing and elevating the huge hydraulic presses, two 40-horse power steam-engines, the suspension chains, lifting frames, &c., would have been obviated. Tidal power might have been used to work the press as easily and readily as a steam-ongine could be applied, and an almost unlimited amount of power might have been brought to bear, either for lifting the tubes or working the presse

ON THE GENERAL SYSTEM OF ATMOSPHERIC TRACTION, AND PIATTI'S METHOD OF PROPULSION BY COMPRESSED AIR.

ON THE GENERAL SYSTEM OF ATMOSPHERIC TRACTION, AND PIATIT'S METHOD OF PROPULSION BY COMPRESSED AIR.

Siz,—In resuming the subject of atmospheric traction and propulsion, I shall merely call attention in a very brief way to those particular topics of consideration which seem to have been mainly instrumental in influencing the results of engineering calculation, as well as those of actual experiment. I have already spoken of the leakage resulting from the use of Samuda's valve; but I think it right, at the same time, that we should clearly understand the precise measure of this evil as determined by experiment. In the trials upon the Dalkey extension, already referred to, it was found that the average leakage per minute of the vacuum tube and connecting pipe was equal to a total of 1035 feet of air, with a pressure of 5 lbs. to the inch—the mercury in the barometer gaage standing at 20 in. Under like circumstances of exhaustion, with a tube 4 miles long, and 15 in. in diameter—such a tube, in fact, as the patentees propose to adopt in general practice—the mean leakage per minute would be equal to 1673 cable feet, which, in a period of eight minutes, the time occupied by a train in passing from one extremity to the other, with a uniform velocity of 30 miles as hour, would amount altogether to 13,394 fr., or very nearly half the entire capacity of the tube and connecting pipe. It must be recollected also that a due allowance has been here made for the varying position of the piston in the tube during the time of transit, and that the experiments were carried on when the longitudinal valve was in fair working condition. Had it been otherwise, and the valve considerably out of order, it is difficult to say, with accuracy, how far the amount of leakage might have extended; but we are quite sure that the demand upon the engine would have been excessive and severe. In fact, the comparatively feeble pressure of 8 or 10 lbs. to the inch, exerted by the external atmosphere, is insufficient to close the valve with sufficien might have extended; but we are quite sure that the demand apont the engine would have been excessive and severe. In fact, the comparatively feeble pressure of 8 or 10 lbs. to the inch, exerted by the external atmosphere, is insufficient to close the valve with sufficient tightness; and the arrangement in this respect is not to be compared with Piatit's, where a far more yielding material than leather is employed as a seat for the valve, and an internal pressure of four or five times the former amount is constantly brought to bear upon it. The truth of this position is shown by the working of the model at Peckham, which, though coarsely constructed in the beginning, and subsequently exposed to much rough usage, constitues, nevertheless, to be practically air-tight.

The power expended in working a line upon the principle of atmospheric traction being as the main resistance offered to the motion of the air-pump, multiplied by its velocity, it follows, as this pressure has been shown to be tolerably uniform throughout the range of barometrical measurement likely to be available for railway purposes, and as the velocity of the piston necessarily increases with the degree of exhaustion obtained, that neither for the purpose of improving the tightness of the valve, nor to meet the contingent demands for additional power, to which every railway system is occasionally liable, can the balance of elastic force, acting

within the tube and upon the piston, be caused to exceed a very narrow limit of atmospheric pressure.

It has just been suggested to me, that a great and apparently an insuperable difficulty attending the use of compressed air as a propulsive agent is to be found in the fact, that the pressure and resistance of the air in the condensing pumps are constantly increasing as the process of condensation proceeds; while the steam power employed in overcoming that resistance is a fixed and unalterable quantity. Precisely the same objection, theoretically speaking, and within certain limits, would apply to the vacuum system; but it has been seen that it does not obtain in practice. The unalterability of the engine power is quite imaginary. I quote the following sontence from a report upon the Kingston atmospheric, in the Railway Timer for 1843, page 1298. It refers to the stationary engine employed thereon, in which the initial pressure of steam is 40 lbs. to the square inch working expansively at one-fourth stroke, and subsequently condensed in the usual way:—"The degree of cut off is regulated by a cam, worked by the governor, and is, therefore, proportionately shorter as the duty of the engine is less; but in no case is the steam admitted for a greater distance than one-fourth of the stroke." Here is the principle of accommodation between power and resistance in regular operation; and the mean pressure upon the piston throughout the whole stroke regulated with the great-set nicety. Very simple methods of accomplishing this are adopted in practice, and it is needless to remark that the minor inequalities of relationship between power and resistance are balanced by the action of the engine itself; for, supposing the power to be in excess, additional velocity immediately ensues, with a consequent additional resistance in the condensing pump, by reason of friction, &c.; and not merely this, but the throttle valve being partially closed by the rise of the governor, prevents the free ingress of steam—so that the cylinder

MANUAL POWER v. HORSE AND STEAM POWER.

MANUAL FOWER s. HORSE AND STEAM FUWER.

RESPECTED FRIEND,—Permit me to inform your correspondent, "Engineer," that no reasoning of his, either past or present, has in the least changed my opinion on the subject, and that I shall not adopt his unstable and extravagant plan; neither am I alarmed at his quirering description of a quagmire, or alippery account of timber tracks. Allow me now to offer another comparative statement. In order to form some idea of what would have been the difference between the effects upon the line from Bristol to Bath (supposing the line to have finished at Bath), the cost of which part, including the works at both places, is estimated at the astounding amount of 800,000°, for less than 12 miles, making due allowance for the undulations of the turnpike-road, by allotting two engines to one on the rail, or 50 per cent. In favour of the latter, the account may be thus stated:

	Capital—Cost of timber track£12,000 Two engines 2,000	Capital
,	£14,000	£801,700
8	Interest£700	Interest
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A thousand passengers per day, at 3d. each for 12 miles, would be ample to realize 10 per cent. upon the turnpike-road; whereas it would have required something like 2s. 6d. 5d. 3s. each to have realized 5 per cent. on the railway—thus proving that even gold may be bought too dearly, which I hope, are long, to be enabled practically to demonstrate.

Stangate, Lambeth, 9th mo. (Sapt. 7).

bought too dearly, which I hope, ere long, to be enabled practically to demonstrate.

Stangate, Lambeth, 9th mc. (Sapt. 7).

IMPROVEMENTS IN RAILWAYS, ENGINES, AND CARRIAGES.—Mr. P. M. Parsons, of Lewisham, has recently secured a patent, by which he claims—I. The improved railway turn-table, in so far as regards the peculiar arrangements and combinations by which the moveable platform, when at rest, is supported, partly on a central pivot, and partly on moveable or temporary supports, which are forced to their bearings by means of self-acting agents, and are withdrawn when the table is required to be turned, leaving the table supported by the central pivot alone while rotating.—2. Securing the rails of railways directly to the longitudinal or cross sleepers by means of wooden trenals without the intervention of the ordinary chairs, and also encasing the heads of such trenails in thimbles or ferrules.—3. The plan of securing the rails by inserting them in recesses cut in cross sleepers, and making them fast therein by keys or wedges.—4. The methods of securing the joints of rails, which are attached to the sleepers, without the aid of chairs, and which are supported by the sleeper itself immediately at the joint, by means of clamps or splices.—5. The employment in railways of switches with the tongue rails of the improved forms, whether as regards the whole or only points of the tongue rails; also securing the fixed rails into the switch chairs by means of wooden keys, where tongue rails, which are less in depth than the fixed rails, are employed.—6. The improvements in railway crossings, that is to say, in so far as regards the peculiar form given to the points.—7. The forming of pairs of wheels and axles of railway engines and carriages all in one piece, with the exception of the tyres; and also the mode of constructing railway wheels by forming the spoke out of a flange on the inside of the tyre or rin, and the mode of tataching the tyres.—8. The forming of the springs of railway engines and carriages, or to

IVERPOOL COLLEGE OF CHEMISTRY.

PATRON.

HIS ROYAL HIGHNESS PRINCE ALBERT.

DERICTOR AND PROFESSOR.

DR. SHERIDAN MUSPRATT.

ASSISTANTS—Mrs. G. HAMILTON, and Mrs. J. BROWN.

A working place is appropriated to each student, who provides himself with all appass, platinum and silver solutions, alcohol, substances for original research, platinum end silver solutions, alcohol, substances for original research, platinum end silver solutions, alcohol, substances for original research, platinum end silver solutions, alcohol, substances for original research, platinum end silver solutions are required by the desarce, who is present from Ten till Five o'clock creary day during the session, and from till Silver occlock on the evenings of Mondays, Wordensdays, and Pridays.

ach student proceeds by himself in a series of experiments, which make him acquainted to the research of all the more commonly occurring.

The FRIDORCAL TECKETS, to insure £1000, are obtainable on application at the RAIL
WAY STATIONS, or at the OFFICES of the company, No. 3, OLD BROAD-STREET, CITY, on the following terms:—

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HIS ROYAL HIGHNESS PRINCE ALBERT.

DESCRORAND PROFESSOR.

DESCRIPTION MUSPICATT.

ASSISTANTO—MR. G. HAMILTON, and Mr. J. BROWN.

A working place is appropriated to each student, who provides himself with all apparatus, platinum and silver solutions, alcohol, substances for original research, platinum wires, and filtering paper. The common re-agents, and gas and fuel, are supplied by the Professor, who is present from Ten till Five o'clock every day during the season, and from Six till Nine o'clock on the ovenings of Mondays, Wednesdays, and Fridays.

Each student proceeds by himself in a series of experiments, which make him acquainted with the re-actions—4d est, the chemical properties of all the more commonly occurring bedies. When perfectly familiar with these phenomens, he is taught, by a systematic course of experiments, all necessary manipulations and processes, by making analysis of a variety of substances, so prepared by the Professor, as to lead from the simple to the more complex cases. When expert in qualitative, he enters upon a course of quantitative analysis. More advanced students engage in original research.

A prospectus of fees and regulations, for day or evening attendance, may be had on an plication at the laboratory, which is stranged.

DR. MUSPRATT'S PLATTNER ON THE BLOWPIPE.

acous entrow.

10 USE of the BLOWPIPE, in the EXAMINATION of MINERALS, ORES, and other METALLIC COMBINATIONS.

By Professor PLATTNER, Assay Master of the Royal Saxon Smelting-Works.

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By Professor PLATTNER, Assay Master of the Royal Saxon Smelting

"Dr. Sheridan Muspratt's translation of Platiner's excellent treatise on the use and phileation of the blowpipe, has been executed with fidelity and ability, and I consider its abilication in England of essential service. The translated edition is further enhanced y Dr. Muspratt's annotations."

by Dr. Muspratt's annotations."

Professor Will, of Giessen.

"Dr. Muspratt has earned a lasting reputation, by introducing successfully Prenowned work on the blowpipe to the English public."

Dr. Hufman, of London.

"Dr. Muspratt, in a comparatively short time, besides bringing out a transl. Plattner's renowned work on the blowpipe, published two memoirs, establishing his intimate acquaintance with mineral and organic chemistry."

Plattner's Work on the Blowpipe is now used in all the Laboratories of Europe London: Taylor, Walton, and Maheyl. No. 28, Honey Gower, street, and No. 27, 16

Plattner's Work on the Blowpipe is now used in all the Laboratories of Europe.

London: Taylor, Walton, and Maberly, No. 28, Upper Gower-street, and No. 27, Ivy-lane Paternoster-row.

A MODEL RAILWAY, worked by compressed air only, on PIATITS PLAN—showing its wast superiority over the vacuum system, both in economy and almost unlimited power, MAY BE SEEN EVERY DAY (gratis), from Twelve to Four o'clock, at the ROSEMARY BRANCH TAVERN, near PECKHAM. A carriage, weighing a ton, propelled by condensed air for 50 feet only, runs with considerable velocity over a railway 450 feet cong—the last 150 up an incline of 1 in 30.

The Waterloo and Atlas omnibuses join, at the Elephant and Castle, the Peckham omnibuses, which leave Gracchurch-street every 10 minutes, and pass within 100 yards of the Model Railway.—Parties desirous of further information, taking out licences, or treating for carrying out the invention on a large scale, will please apply personally, or by jetter, to "A. Z.," Post-office, corner of Judd-street, New-road.

new Patents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK

Specification of patent granted to W. H. Balmain and E. A Parnell, St. Helen's, Lancaster, manufacturing chemists, for improvements in the manufacture of glass, and in the preparation of certain materials to be used therein, parts of which improvements are also applicable to the manufacture of alkales. These improvements relate to the mixture and preparation of materials for the formation of glass. One mode of preparing the materials consists in heating the sulphate of so or the sulphate of potass, or the sulphate of barytes, together with sand and carbonaceous matter, and maintaining the whole at such a degree of heat as shall cause them to combine and form the silicates of the different bases. The feature of the other mixtures is the use of deoxydizing agents, so that the sulphates may be used in making glass. The sulphates do not act destructively upon the pot, and are much cheaper than the carbonates. Another improvement is in the use of a furnace of a particular description, for alkalies and silicates. The raw material is thrown on an inclined bed at the further end of the furnace, and, as it mells, runs down to the bottom of the incline, where there is an opening, through which it dows into moulds, or into a vessel containing water. These improvements constitute the subject matter of the claims.

matter of the claims.

Specification of patent granted to W. H. Green, Basinghall-street, London, for improvements in the preparation of fact. These improvements consist—i. In the construction of a chamber for drying peat. The chamber is charged with peat from the top, till it is nearly full. Under the floor there are a series of flues, heated by two furnaces, and within the flues there are a number of upright iron pipes, these pipes have no internal communication with the flues, but are open at bottom to the external atmosphere, and at top to the drying chamber; the air in the tubes is heated by the flues, and the hot air passing through the peat absorbes all moisture therefrom.—2. In the construction of ovens for coking peat. The dried peat is placed in baskets made of from hoop, and put into the coking oven; the gas evolved in the process of coking is conducted from the ovens or retorts into a cold water tank, or condenser, where the products capable of condensation supervised the resulting gas is then discharged into the furnace, where it assists in heating the coke ovens. Claims.—1. The drying chamber, as described.—2. The enthed of arranging ovens or retorts for coking peat.

Specification of patent granted to J. Baird, Gartaberrie, Old Monkiand, Lanark, Scotland, Ironmester; and A. Whitelaw, of the same place, manager, for improvements in the methods or process of manufacturing iron.—These improvements are in the means employed to heat the air used in the manufacture of hot-blast from. The upper part of the blast-furnace is surrounded with a hollow chamber, having free communication with the furnace by means of a number of openings in the brickwork; the pipes of heating that for the blast are arranged round the hollow chamber, where they are sufficiently exposed to the action of the furnace to produce the requisite heating of the air within them, and yet are sufficiently protected from the direct action of the furnace, to prevent their being speedily destroyed.

**Control—The arrangement described of piscing pipes for heating air to be employed in hot-blast farnaces in the arched top of the furnace.

N. Defries, Grafton-street, Fitzory-square, C.E., and G. B. Petit, Brook-street, New-road, gas engineer, for improvements in applying gas to heat apparatus containing fluids, and in heating and ventilating buildings; also improvements in gas fittings, and in apparatus for controlling the passage of gas.—Mr. Defries has disclaimed all the above title, excepting—"Improvements in applying gas to heat apparatus containing fluids, and in heating and ventilating buildings." The first improvement is in the method of applying gas to heat baths. The bath has a double bottom, the upper one plain, and the lower corrugated, and, being corrugated, presents a larger surface for the absorption of heat emitted by gas-burners placed below it than if plain. The second improvement consists in applying the heat evolved from gas lights, when used for illuminating purposes, to heating fluids. The heated products of combustion are conveyed by pipes to any convenient spot. Around these are other pipes containing the fluid to be heated, which may be drawn of as required; or it may be made to circulate in pipes for heating partments. Claims.—1. The employment of gas, in the manner described, for heating batha,—2. The employment of the heat evolved from gas used for illuminating purposes to heat fluids.

LIST OF PATENTS GRANTED DURING THE PAST WEEK

LIST OF PATENTS GRANTED DURING THE PAST WEEK.

M. Macfariane, Thistle-street, Glasgow, coppersmith, for certain improvement machinery, or apparatins for the drying and finishing of woven fabrics.

A. Haig, Smith-street, Stepney, engineer, for an improved apparatus for exhaund driving atmospheric air and other gases, and for giving motion to other machin A. R. Terry, Manchester-street, Manchester-square, engineer, for improvements in manufacture or preparation of firewood.

J. M. Heath, Hanwell, Middlesex, for improvements in the manufacture of steel. Sir John Macceelli, Knight, of Dublin, and T. Barry, of Lyons, near Dublin, meet for improvements in locomotive engines, and in the construction of railways.

J. Hosking, of Newcastle-upon-Tyne, engineer, for an improved pavement.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

W. Satchell, Uppingham, pump and fire-engine.
H. Holden, Liverpool-street, King's-cross, tailors' measure.
H. N. Nissen, and G. P. Parker, Mark-lane, cash envelope.
A. Lindsay, Greenock, spindle bearing.
Neal and Wilson, Grantham, Liucoh, stone-cutting machine.
T. and M. Staiston, South Shields, Durham, founders and gasa-Augustup Paul and Brothers, Paris, needle threader and case.
J. Duley, Northampton, an effluvia trsp.—Mechanics' Magasia.

COAL MARKET, LONDON.

GOAL MARKET, LONDON.

FRICE OF COALS FER TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Bate's West Hartley 16 6—Cars's Hartley 16—East Adairs Main 13 6—Hastings Hartley 15 6—Holdey's Hartley 13 6—Holywell Main 16 6—New Tanfield 13 9—North Percy Hartley 16 6—Ort's Redheugh 14—Ravensworth West Hartley 15—Tanfield Moor Butes 13 6—West Hartley 16 6—West Wylam 15 3—Wall's-End Brown's 14 6—Hedworth 13 6—Helmon 15—Morrison 15 3—Northmberland 15—Percy 14 6—South Killingworth 13 6—Eden Main 16—Bell 15 9—Belmont 16 3—Braddyll 17—Hetton 17 6—Haswell 17 6—Lambton 17—Lumley 15 6—Pimmer 17 3—Rassell's Hetton 17 5—Haswell 17 6—Lambton 17—Lumley 15 6—Pimmer 17 3—Rassell's Hetton 17 5—Stowart's 17 3—Whitwell 15 6—Caradoc 16—Cassop 16—Hartlepool 17 3—Heugh Hall 18 3 to 15 9—Adelaide Tees 16 3—Cowndon Tees 15 3—South Durhsmi 19-8; Helen's Tees 14 6—Caradoc 16—Cassop 15—Soynour Tees 15 9—South Durhsmi 19-8; Helen's Tees 14 6—Caradoc 16—Morpetit Hartley 14 6—New Tanfield 15 6—Ravensworth West Hartley 14 6—Morpetit Hartley 14 6—New Tanfield 15 6—Ravensworth West Hartley 14 6—Morpetit 16—Eden Main 16—Belmont 16 9—Braddyll 17—Hetton 17 3—Lambton 16 9—Lambey 16 6—Ravensworth West Hartley 18 6—Gasop 15 9—South Hartley 10 16—Adelaide Tees 16 3—Pease's West 14—Seymour Tees 16 6—South Durhsmi 15 3—West Cornforth 15—Durwentwater Hartley 16 6—Hottley 16 —Hattley 18 6—Carry's Hartley 18 6—Adelaide Tees 16 3—Pease's West 14—Seymour Tees 16 6—South Durhsmi 15 3—West Cornforth 16—Durwentwater Hartley 16 16—Hattley 18 6—Hattley 18 6—Carry's Hartley 18 6—Morpetik 18—South Kullingworth 18 15—Hattley 18 6—Carry's Hartley 16 6—Adair's Main 13—Hasting's Hartley 18 6—Holywell Main 18—New Tamfield 39—Ord's Rothonyh 14—Eavensworth's West Hartley 14 6—Northumberland 14 9—Eden Main 16 3—Lambton Frimrose 15 9—Eal 18 6—Braddyll 83 3—Haswell 17 6—Delison 16—Edelou 16 6—Thornley 16 6—West Hartley 15 6—Hartley 16 6—Braddyll 83 3—Haswell 17 6—Delison 16—Delison 16 6—Edelou 15 6—Thornley 16 6—Hartley 14 6—Sidney's Hartley 16 6—South Durham 16 5—Lambton Primrose 15 9—E

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For three months, at a premium of 10s.

For six months, at a premium of 10s.

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The Periodical Tickets cover the risk of travelling on any railway in the kingdom.

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OFFICES, 3, OLD BROAD-STREET, CITY, LONDON.

BRIMPT'S TIN MINING COMPANY,
DARTMOOR, DEVON.
AT WORK ON THE COST-BOOK PRINCIPLE,
Which exempts shareholders from any liability beyond the amount of their shares, and
enables them to withdraw at any time by giving notice to the purser to that effect.
In 256 shares, at £3 2s. each.—No shareholder to hold less than 4-256fm.
BANKERS—Devon and Corawall Banking Company, Exciter and Tomes.
SOLICITOR—Mr. R. Robins, Tavistock.
PURSER—Mr. George Stranger, Holme, near Ashburton.
SECRETARY PRO TEX.—Mr. R. Tripp, Exeter.
OFFICES—BEDFORD CHAMBERS, BAMPFYLDS-STREET.
This MINE a situated at the bottom of DAENMET HULL, in the FOREST of PART.

OFFICES—BEDFORD CHAMBERS, BANFFYLDE-STREET.

This MINE is situated at the bottom of DARTMEET HILL, in the FOREST of DARTMOOR, in the parish of LIDFORD, DEVON; distant 16 miles west of Exeter, 12 from Tavistock, and 12 from Totnes.

The SEIT is about a mile long from east to west, and haif a mile wide. There are several lodes passing through it in an east and west direction, which have been worked on by the late owner of the estate, from whence considerable returns were made; and no doubt exists that this mine will again take its stand as one of the most productive and richest mines in the county.

The subjoined report of Mr. Tockett, made before a Master Extraordinary in Chancery—that the mine was worked about 50 years since, and that it was abandoned by him solely for the reason therein stated—furnishes indisputable evidence of its great value. As the meeting of the shareholders is to take place at the infine on the 57th Sept., for the purpose of carrying on the operations of the mine, applications for shares must be made before the 22d September, to Mr. R. Tripp, Exeter.

DECLARATION OF MR. RICHARD TUCKETT.

I, Richard Tuckett, of Dunnabridge, in the parish of Lidford, in the county of Devon, you man, do solemnly and sincerely declare that I am now seventy-nine years of age; that about fifty years slinee I was in the service of Mr. Joseph Sanders, of Brimpts, in the parish of Lidford aforeasid, and that whilst in his employ I was in the habit of drawing with a slide-but tinstuff from the shaft near to the stable, and also from a level in a field called the Potatoe Field, part of Brimpts estate aforeasid, down to the Stumps; and I continued drawing tinstuff from the places before-mentioned, at different periods, for two or three years; and I further solemnly and sincerely declare, that I remember the mine at Brimpts being worked by the said Joseph Sanders alone for seven or eight years; and that the tinstuff, when made marketable, was taken to Tavistock by the said Joseph Sanders; and I further solemnly and sincerely declare, that I remember the anid Joseph Sanders was dimine called Brimpts, because he considered the miners were imposing upon him: and lastly, I solemnly and sincerely declare, I recollect the miners offered the said Joseph Sanders to work the said mine at a low tribute, but he, the said Joseph Sanders, refused their application.

Dated the 4th April, 1849.

THE OLD BRIMPTS MINE SETT.

Dated the 4th April, 1849.

THE OLD BRIMPTS MINE SETT.

SIR.—Having carefully examined this sett, and noted its various points, as far as they admitted of inspection, with a view to submit my opinion thereon as to the probability of its fature productiveness and capabilities, permit rate to ofter the following observations:— In the first place—independent of living evidence—the ancient workings show that a vast amount of labour must have been bestowed in searching for ore, and from the sides of the excavations, stones of the or rich quality have been found—clearly showing that was the metal sought for, and that a great quantity must have been raised; in fact, the renown of this mine has been the theme sounding in my ears ever since my first recollection—my late father having, both from report as well as personal impection, often expressed to me his desire to obtain the grant; nor do I myself the least dispute the correctness of his opinion, for I believe the lode, or rather lodes, are large, and must have been productive.

rectness of his opinion, for I believe the lode, or rather lodes, are large, and must have been productive.

The sett is an extensive and sufficient one for the employment of capital, I think beneficially, as well as the exercise of mining skill, being from north to south from Bellevor Torr to Dartmeet, and from the East to West Dark Rivers, which furnish sufficient water-power for all the requisite purposes—such as pumping the water and drawing the stuff and work out of the mine, as well as every purpose of dressing.

There is also timber of every description growing close on the mine, and the stratum of ground through which the lodes traverse is of a soft and congenial character, so that this adventure can be carried out with all due economy.

I am informed the mine is to ashoring under the adit; I should, therefore, advise a water-wheel to be at ence provided, with all the economy.

I am informed the mine is to ashoring under the adit; I should, therefore, advise a water-wheel to be at ence provided, with all the evaluation plannes, either new or good second-hand, as the case turns out, and to clear and drive the adit level. Also clear up the shafts and workings, so as to be astisfed as to the whereabouts to begin operations for a permanent working, the which, if properly carried out, if we of opinion will lead to satisfactory results.

satisfactory results.

In conclusion, allow me to say, this sett, from the foregoing imperfect sketch of its prospects, is such as I should not hesitate to recommend to any spirited set of seventurers, to whom I should wish success, and I remain, Bir, your obedions servant, Tavistock, July, 1849.

JUHN HITCHINS.

DEVON.—HENNOCK IRON, STEEL, AND TIN MINING ON THE COST-BOOK PRINCIPLE.

ON THE COST-BOOK PRINCIPLE.

BANKERS—Devon and Cornwall Bank, Exeter and Newton Abbott.

Solicitors—Messrs. Kennaway and Buckingham, Exeter.

Capital £9456, in 4500 shares, at £2 2s. each, without further calls or liability.

Deposit £1 is, per share.

The promoters of this company propose to raise the above capital to work efficiently these very valuable mines of micacoons iron and tin ore, situate in the parish of Hennock, 12 miles west of Exeter, and 2 from Bovey Tracey, on the confines of Dartmoor.

These mines are not a new discovery, but possess the advantage of having had their merits tested to an extent that fully establishes their great capabilities, and warrants the expectation of a large trade at a highly remunerating profit.

Prospectuses and particulars supplied on application (if by letter, post-paid) to Mr. Tripp, Bedford Chambers, and of Mr. T. Sanford, Exeter; Mr. H. Luscembe, Plymouth; Mr. B. S. Stock, Bristol; Mr. C. P. Cameron, Liverpool; Mr. J. Lang, 80, Old Broadstreet, Mr. Herron, 33, Clements-lane, and at the office of the Mining Journal, No. 26, Fleet-street, London.

RELYON CONSOLIDATED MINES, comprising the SETIS OF WHEAL MARGERY AND WHEAL VENTURE, IN THE PARISHES OF ST. IVES AND LELANT, CORNWALL.

es, within the lands of Lord Viscount Wellesley, are divided into 200 parts or shares, and conducted on the Cost-Book System.

These mines, within the lands of Lord Viscount Wellesley, are divided into 200 parts, or shares, and conducted on the Cost-Book System.

PROSPECTUS.

The part formerly known by the name of WHEAL MARGERY, comprehends within its limits nearly 500 fathoms in length, and 200 fathoms in breadth, and has within it boundary three east and west lodes underlaying south, and two north and south lode underlaying west, already discovered, in a rich brown and white mineral killas, adjeaning to granuite on the west, from which circumstance it is presumed the value of the set is greatly increased. While Margary is situated in one of the most productive in an copper districts in Cornwail, and near the celebrated mines called Providence Mines Wheal Lasiry, and Wheal Venture, on the south; if Wheal Tangare, and wheal Mestal one mile distant, on the north; and not far in the west are the productive mines of Balacon. Wheal Mestal Wheal Accounts of the most produced from the working. Wheal Margaret, and Wheal Margaret, and wheal Margaret, and wheal Margaret, when the large quantity of the west called the state of the south lode also produces rich copper or a sea the south of the south lode also produces rich copper or a sea the south of the produced large quantities of mineral.

It may be proper to remark, that the local distantion of Wheal Margary is very fearing able teeting the south of the port as mall the south of the port a

or never falls to produce large quantities of mineral.

It may be proper to remark, that the local situation of Wheal Margery is very desirable, being I mile south of the part of St. Ives, and 3 miles north of Hayle, from either of which ports supplies may be obtained at a reasonable rate of carriage, and the produce exported on very advantageous terms.

WHEAL VENTURE is about 1½ mile south of the port of St. Ives, and 3 miles north of Hayle, and nearly adjoins Wheal Margery, and might be worked by the use of flat-rods, from Wheal Margery engine, if required. This little mine is now in working, and producing some tons of tin and copper monthly, which will more than pay the cost, and presents a considerable improvement in sinking and driving. The water is drawn by a horse engine, and the stuff by a horse-whim, and is only 36 fathoms deep. Wheal Margery deep adit is within 150 fathoms of Wheal Venture sett, and could be extended into that mine, which would come in fall 30 to 40 fathoms under the present working, and would unwater five east and wost, and two north and south in and copper lodes, all embedded in a fine mineral grantic.

It is believed that Trelyon Consols may be fully worked with an efficient steam-engine and stamps, for from £1 to £20 per share.

Shares may be had on application to Mr. John Rodda, Penzance.

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(Signed) EDWARD TURNER, Prof. of Chemistry, London University." "For purity of spirit your PATENT BRANDY cannot be surpassed; it is also qui se from those acids which always contaminate the foreign spirit.

(Signed) Joseph Henra, Toxicological Chemist to the Board of Excise.

free from those acids which always contaminate the foreign aperts.

(Signed) JOSEPH HERE, TOXICOLOGICAL CHEMIST OF THE CONTROLOGY AND THE CONTROLO

We beg to announce to all persons desirous of purchasing the GENUINE PATEST BRANDY, that the same can be procured in every town in the kingdom, at 3s. per bottle, each bottle being secured by our Metallic Capanie, or direct from the distillery, in quartities not less than Two Galions, at 18s. per galion.

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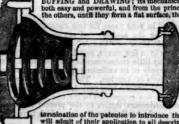
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JOHN BROWN'S CONICAL RAILWAY BUFFER,
BEARING AND DRAW SPRINGS.
Guaranteed 12 months.—Each spring to carry from 4 to 5 tons.

The Patentee invites the attention of Railway Authorities, Carrage Builders, &c., to his KEWLY-INVENTED CONICAL SPRING, to BUFFING and DRAWING; its mechanical action will be found to be both easy and powerful, and from the principle of each coil falling within the others, until they form a flat surface, the spring can sustain no injury from any blow or pressure when driven home; the amount of play in these is



termination of the patentee to introduce these spring, it has been will admit of their application to all description of railway plant. It will be seen from the subjoined list of prices, that, taking it sideration the proportion of play and the durability of the mater see are at the same time the cheapest and most effective Buffer rick; they are already in use upon 21 different lines of railway ma.

PRICES PER SET OF FOUR BUFFERS, COMPLETE,

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Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (element of Essex-sireet).

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SANATARY MEASURES.

All MEMBERS of BOARDS OF HEALTH are especially DIRECTED to the most effective means that the produced from moisture, ean ADDFT to PREVENT the injurious and other FATAL EFFECTS upon the HEALTH of the COMMUNITY, arising from exhalising that are produced from moisture, decayed animal matter (as in grave-yards), stagmal water, and collections of fortid refuse, tending to produce a misamatic state of same phere. In situations so effected, the impervious quality of the ASFHALTE of SEYSELT renders it the most perfect PAYEMENT or COVERING that can be relied upon for hemetically closing, and thereby preventing the rising of moisture and escape of notice and arches, for preventing the percolation of wet, is strong evidence of its effectives for the above purposes, which is further confirmed by the following extract from the legisles, of the commissioners on the Fine Arts:—

"In 1829, I superintended the construction of a house of three stories on the Legisles. The foundation of the building is constantly in water, about 19½ inches low the level of the ground floor. The entire horizontal surface of the external and 2 terwal walls was covered at the level of the internal ground floor with a layer of SEP SEL ASPHALTE, 'less than half an inch thick, over which coarse sand vata spreads tory, which are for the most part painted in oil, of a grey stone colour. It is swell known that the least moisture produces round spots, darker or lighter, on walls so painted in a surface of the story and the remot part painted in oil, of a grey stone colour. It is swell known that the least moisture produces round spots, darker or lighter, on walls so painted in a surface of the sory, esting on the soft itself, is only about \$4 in. above the carbonal surface of the corporate in the soft staff, is only about \$4 in. above the carbonal surface of the four-pasts."

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